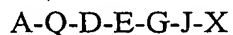


WHAT IS CLAIMED IS:

1. A compound of the formula (I):



wherein:

- 5 A is selected from the group consisting of:

-C<sub>1-6</sub>alkyl and -C<sub>3-8</sub>cycloalkyl;

phenyl, which is substituted with 0-2 R<sup>1</sup> groups;

naphthyl, which is substituted with 0-2 R<sup>1</sup> groups; and

- 10 a 3-10 membered aromatic or non-aromatic heterocyclic ring system which may be a monocyclic ring system or a fused bicyclic ring system, wherein the heterocyclic ring system contains 1-4 heteroatoms selected from N, O and S and is substituted with 0-2 R<sup>1</sup> groups;

R<sup>1</sup> is independently selected from the group consisting of:

- 15 Halo, -CN, -C(=O)-N(R<sup>2</sup>, R<sup>3</sup>), -NO<sub>2</sub>, -SO<sub>2</sub>N(R<sup>2</sup>, R<sup>3</sup>), -SO<sub>2</sub>R<sup>2</sup>, -(CH<sub>2</sub>)<sub>m</sub>NR<sup>2</sup>R<sup>3</sup>, -(CH<sub>2</sub>)<sub>m</sub>-C(=NR<sup>3</sup>)-R<sup>2</sup>, -(CH<sub>2</sub>)<sub>m</sub>-C(=NR<sup>2</sup>)-N(R<sup>2</sup>, R<sup>3</sup>), -(CH<sub>2</sub>)<sub>m</sub>-N(R<sup>2</sup>)-C(=NR<sup>2</sup>)-N(R<sup>2</sup>, R<sup>3</sup>), -(CH<sub>2</sub>)<sub>m</sub>NR<sup>2</sup>-C<sub>3-6</sub>heterocyclics, C<sub>1-4</sub>alkyl, C<sub>2-6</sub>alkenyl, C<sub>2-6</sub>alkynyl, C<sub>3-8</sub>cycloalkyl, C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -CF<sub>3</sub>, -OR<sup>2</sup>, and a 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from N, O and S, wherein from 1-4 hydrogen atoms on the heterocyclic system may be  
20 independently replaced with a member selected from the group consisting of halo, C<sub>1-4</sub>-alkyl, -CN C<sub>1-4</sub>alkyl, C<sub>2-6</sub>alkenyl, C<sub>2-6</sub>alkynyl, C<sub>3-8</sub>cycloalkyl, C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl and -NO<sub>2</sub>;

R<sup>2</sup> and R<sup>3</sup> are independently selected from the group consisting of:

-H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be independently replaced with a member selected from the group consisting of  
5       halo,       -C<sub>1-4</sub>alkyl,       -C<sub>2-6</sub>alkenyl,       -C<sub>2-6</sub>alkynyl,       -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

m is an integer of 0-2;

Q is selected from the group consisting of:

10       a direct link, divalent -C<sub>1-4</sub>alkyl, divalent -C<sub>2-4</sub>alkenyl, divalent -C<sub>2-4</sub>alkynyl, -C(=O)-, -C(=NH)-, -C(=NMe)-, -NH-C(=NH)-, -NH-C(=NMe)-, -N(-R<sup>4</sup>)-, -N(-R<sup>4</sup>)-CH<sub>2</sub>-, -C(=O)-N(-R<sup>4</sup>)-, -N(-R<sup>4</sup>)-C(=O)-, -S(=O)<sub>2</sub>-, -O-, -S(=O)<sub>2</sub>-N(-R<sup>4</sup>)- and -N(-R<sup>4</sup>)-S(=O)<sub>2</sub>-, wherein one or more hydrogens on each of the divalent C<sub>1-4</sub>alkyl, divalent C<sub>2-4</sub>alkenyl and divalent C<sub>2-4</sub>alkynyl moieties can be replaced with a -R<sup>4</sup> group;

15       R<sup>4</sup> is selected from the group consisting of:

20       -H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be independently replaced with a member selected from the group consisting of halo,       -C<sub>1-4</sub>alkyl,       -C<sub>2-6</sub>alkenyl,       -C<sub>2-6</sub>alkynyl,       -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

D is selected from the group consisting of:

a direct link;

phenyl, which is substituted with 0-2 R<sup>1a</sup> groups; and

a 5-10 membered aromatic or non-aromatic heterocyclic ring system which may be a monocyclic ring system or a fused bicyclic ring system, wherein the heterocyclic ring system contains 1-4 heteroatoms selected from N, O and S and the ring system is substituted with 0-2 R<sup>1a</sup> groups;

5 R<sup>1a</sup> is independently selected from the group consisting of:

halo, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -NO<sub>2</sub>, -(CH<sub>2</sub>)<sub>n</sub>-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -S(=O)<sub>2</sub>-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -S(=O)<sub>2</sub>-R<sup>2a</sup>, -CF<sub>3</sub>, -(CH<sub>2</sub>)<sub>n</sub>-OR<sup>2a</sup>, -C(=O)-O-R<sup>2a</sup>, -C(=O)-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -C(=NH)-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -C(=NMe)-N(-R<sup>2a</sup>, -R<sup>3a</sup>), 2-  
10 imidazolin-2-yl, 1-methyl-2-imidazolin-2-yl and a 5-6 membered aromatic heterocyclic ring containing 1-4 heteroatoms selected from N, O and S and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms on the ring atoms of the aromatic heterocyclic ring and the carbocyclic aryl moiety may be independently replaced with a member selected from the group consisting  
15 of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

n is an integer of 0-2;

R<sup>2a</sup> and R<sup>3a</sup> are independently selected from the group consisting of:

-H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4  
20 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be independently replaced with a member selected from the group consisting of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

25 E is selected from the group consisting of:

a direct link,  $-(CH_2)_q-C(=O)-$ ,  $-(CH_2)_q-N(R^5)-C(=O)-(CH_2)_x-$ ,  
 $-(CH_2)_q-C(=O)-N(R^5)-(CH_2)_x-$ ,  $-(CH_2)_q-N(R^5)-(CH_2)_x-$ , ,  $-(CH_2)_q-N(R^5)CO-$   
 $NR^6(CH_2)_x$  and  $-SO_2-$ ;

q and x are independently an integer of 0-2;

5  $R^5$  and  $R^6$  are independently selected from the group consisting of:

-H,  $-C_{1-6}alkyl$ ,  $-C_{1-6}alkyloxy$ ,  $-C_{2-6}alkenyl$ ,  $-C_{2-6}alkynyl$ ,  $-C_{3-8}cycloalkyl$ ,  
 $-C_{0-6}alkylC_{3-8}cycloalkyl$ ,  $-C_{1-4}alkyl-C(=O)-OH$ ,  $-C_{0-6}alkyl-(carbocyclic\ aryl)$ ,  
 $-C_{0-4}alkyl-(monocyclic\ heteroaryl)$  and  $-C_{1-4}alkyl-C(=O)-O-C_{1-4}alkyl$ , wherein  
10 from 0-4 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety and  
the monocyclic heteroaryl moieties may be independently replaced with a  
member selected from the group consisting of halo,  $-C_{1-4}alkyl$ ,  $-C_{2-6}alkenyl$ ,  
 $-C_{2-6}alkynyl$ ,  $-C_{3-8}cycloalkyl$ ,  $-C_{0-4}alkylC_{3-8}cycloalkyl$ ,  $-S(=O)_2-OH$ ,  $-CN$ ,  $-CF_3$   
and  $-NO_2$ ;

G is selected from the group consisting of:

15 phenyl, which is substituted with 0-2  $R^{1b}$  groups; and

a 5-6 membered aromatic heterocyclic ring containing 1-4 hetero atoms  
selected from N, O and S wherein the heterocyclic ring is substituted with 0-2  
 $R^{1b}$  groups;

$R^{1b}$  is independently selected from the group consisting of:

20 halo,  $-C_{1-6}alkyl$ ,  $-C_{2-6}alkenyl$ ,  $-C_{2-6}alkynyl$ ,  $-C_{3-8}cycloalkyl$ ,  
 $-C_{0-6}alkylC_{3-8}cycloalkyl$ ,  $-C_{1-4}alkyl-C(=O)-OH$ ,  $-CN$ ,  $-NO_2$ ,  $-S(=O)_2-OH$ ,  
 $-N(R^{2b}, R^{3b})$ ,  $-C(=O)-N(R^{2b}, R^{3b})$ ,  $-S(=O)_2-N(R^{2b}, R^{3b})$ ,  $-S(=O)_2-R^{2b}$ ,  $-CF_3$ ,  
 $-O-R^{2b}$ ,  $-O-CH_2-CH_2-O-R^{2b}$ ,  $-O-CH_2-C(=O)-O-R^{2b}$ ,  $-N(R^{2b})-CH_2-CH_2-O-R^{2b}$ ,  
 $-N(-CH_2-CH_2-O-R^{2b})_2$ ,  $-N(R^{2b})-C(=O)-R^{3b}$ ,  $-N(R^{2b})-S(=O)_2-R^{3b}$ , and a 5-6

membered heterocyclic ring containing 1-4 heteroatoms selected from N, O and S substituted with 0-4 R<sup>1b'</sup> groups;

alternatively, when two R<sup>1b</sup> may be present on adjacent ring atoms of G and combine to form a benzene ring substituted with 0-4 R<sup>1b'</sup> groups or a 5-6  
5 membered aromatic or non-aromatic heterocyclic ring having 1-3 heteroatoms selected from N, O and S substituted with 0-4 R<sup>1b'</sup> groups;

in a second alternative, one of the R<sup>1b</sup> groups of G can cyclize with the -N-R<sup>5</sup> group of E to form a 5-7 membered heterocyclic ring containing 1-4 heteroatoms selected from N, O and S, which is substituted with 0-4 R<sup>1b'</sup>  
10 groups, wherein two of the R<sup>1b'</sup> groups attached to the same ring carbon may form a (=O) group;

R<sup>2b</sup> and R<sup>3b</sup> are independently selected from the group consisting of:

-H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4  
15 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be independently replaced with a member selected from the group consisting of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-O<sup>-</sup>, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

R<sup>1b'</sup> is independently selected from the group consisting of:

halo, -C<sub>1-6</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl, -C<sub>1-4</sub>alkyl-C(=O)-OH, -CN, -NO<sub>2</sub>, -S(=O)<sub>2</sub>-OH, -N(-R<sup>2b'</sup>, -R<sup>3b'</sup>), -C(=O)-N(-R<sup>2b'</sup>, -R<sup>3b'</sup>), -S(=O)<sub>2</sub>-N(-R<sup>2b'</sup>, -R<sup>3b'</sup>), -S(=O)<sub>2</sub>-R<sup>2b'</sup>, -CF<sub>3</sub>, -O-R<sup>2b'</sup>, -O-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2b'</sup>, -O-CH<sub>2</sub>-C(=O)-O-R<sup>2b'</sup>, -N(-R<sup>2b'</sup>)-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2b'</sup>, -N(-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2b'</sup>)<sub>2</sub>, -N(-R<sup>2b'</sup>)-C(=O)-R<sup>3b'</sup> and  
20 -N(-R<sup>2b'</sup>)-S(=O)<sub>2</sub>-R<sup>3b'</sup>;  
25

R<sup>2b'</sup> and R<sup>3b'</sup> are independently selected from the group consisting of:

-H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkoxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be  
5 independently replaced with a member selected from the group consisting of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

J is selected from the group consisting of:

a direct link, -S(=O)<sub>2</sub>-, -C(=O)-, -N(-R<sup>7</sup>)-S(=O)<sub>2</sub>-, -C(=O)-N(-R<sup>7</sup>)-S(=O)<sub>2</sub>-,  
10 -C(=O)-N(-R<sup>7</sup>)-(CH<sub>2</sub>)<sub>y</sub>-, -S(=O)<sub>2</sub>-N(-R<sup>7</sup>)-(CH<sub>2</sub>)<sub>y</sub>-, and  
-N(-R<sup>7</sup>)-C(=O)-(CH<sub>2</sub>)<sub>y</sub>-;

y is an integer of 0-2;

R<sup>7</sup> is selected from the group consisting of:

-H, -C<sub>2-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl,  
15 -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl, -C<sub>1-6</sub>alkyl-C(=O)-OH, -C<sub>1-6</sub>alkyl-OH,  
-C<sub>1-6</sub>alkyl-O-C<sub>1-4</sub>alkyl, -C<sub>0-4</sub>alkyl-(carbocyclic aryl), -C<sub>0-4</sub>alkyl-(monocyclic or bicyclic heterocyclic ring system having from 0-4 heteroatoms selected from the group consisting of N, O and S), -CH<sub>2</sub>-C(=O)-O-C<sub>1-4</sub>alkyl and  
-CH<sub>2</sub>-C(=O)-O-C<sub>1-4</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms  
20 on the ring atoms of the carbocyclic aryl moiety or the heterocyclic ring system may be independently replaced with a member selected from the group consisting of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

X is a member selected from the group consisting of:

25 phenyl, which is substituted with 0-3 R<sup>1c</sup> groups;

naphthyl, which is substituted with 0-3 R<sup>1c</sup> groups;

a 6-membered heteroaromatic ring containing from 1-2 nitrogen atoms, wherein the ring is substituted with 0-3 R<sup>1c</sup> groups; and

5 a fused heterobicyclic ring system, wherein the ring system contains 1-3 heteroatoms selected from N, O and S and is substituted with 0-3 R<sup>1c</sup> groups;

R<sup>1c</sup> is independently selected from the group consisting of:

halo, -CF<sub>3</sub>, -C<sub>1-6</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl, -C<sub>1-4</sub>alkyl-C(=O)-OH, -CF<sub>3</sub>, -CN, -NO<sub>2</sub>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -C(=O)-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -C(=NH)-N(-R<sup>2c</sup>, -R<sup>3c</sup>),  
10 -C(=NMe)-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -S(=O)<sub>2</sub>-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -S(=O)<sub>2</sub>-R<sup>2c</sup>, -S(=O)<sub>2</sub>-OH, -CF<sub>3</sub>, -O-R<sup>2c</sup>, -O(-CH<sub>2</sub>)<sub>z</sub>-O-R<sup>2c</sup>, -O(-CH<sub>2</sub>)<sub>z</sub>-C(=O)-O-R<sup>2c</sup>, -N(-R<sup>2c</sup>), -O(-CH<sub>2</sub>)<sub>z</sub>-O-R<sup>2c</sup>, -N[(-CH<sub>2</sub>)<sub>z</sub>-O-R<sup>2c</sup>]<sub>2</sub>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>)-C(=O)-R<sup>3c</sup>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>)-S(=O)<sub>2</sub>-R<sup>3c</sup>, and a 5-6 membered heterocyclic ring containing 1-4 heteroatoms selected from N, O and S;

15 z is an integer of 0-4;

R<sup>2c</sup> and R<sup>3c</sup> are independently selected from the group consisting of:

-H, -C<sub>1-6</sub>alkyl, -C<sub>1-6</sub>alkyloxy, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-6</sub>alkylC<sub>3-8</sub>cycloalkyl and -C<sub>0-6</sub>alkyl-(carbocyclic aryl), wherein from 0-4 hydrogen atoms on the ring atoms of the carbocyclic aryl moiety may be  
20 independently replaced with a member selected from the group consisting of halo, -C<sub>1-4</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, -C<sub>3-8</sub>cycloalkyl, -C<sub>0-4</sub>alkylC<sub>3-8</sub>cycloalkyl, -S(=O)<sub>2</sub>-OH, -CN, -CF<sub>3</sub> and -NO<sub>2</sub>;

and all pharmaceutically acceptable isomers, salts, hydrates, solvates and prodrug derivatives thereof.

25

2. A compound of claim 1, wherein:

A is selected from the group consisting of:

-C<sub>1-6</sub>alkyl and -C<sub>3-8</sub>cycloalkyl;

5 phenyl, which is substituted with 0-2 R<sup>1</sup> groups;

naphthyl, which is substituted with 0-2 R<sup>1</sup> groups; and

a 3-10 membered aromatic or non-aromatic heterocyclic ring system which may be a monocyclic ring system or a fused bicyclic ring system, wherein the heterocyclic ring system contains 1-4 heteroatoms selected from N, O and S  
10 and is substituted with 0-2 R<sup>1</sup> groups;

R<sup>1</sup> is independently selected from the group consisting of:

halo, -C<sub>1-4</sub>alkyl, -CN, -NO<sub>2</sub>, -(CH<sub>2</sub>)<sub>m</sub>-N(-R<sup>2</sup>, -R<sup>3</sup>), -C(=O)-N(-R<sup>2</sup>, -R<sup>3</sup>),  
-S(=O)<sub>2</sub>-N(-R<sup>2</sup>, -R<sup>3</sup>), -S(=O)<sub>2</sub>-R<sup>2</sup>, -(CH<sub>2</sub>)<sub>m</sub>-C(=NR<sup>3</sup>)-R<sup>2</sup>, -(CH<sub>2</sub>)<sub>m</sub>-C(=NR<sup>2</sup>)-  
N(R<sup>2</sup>, R<sup>3</sup>), -(CH<sub>2</sub>)<sub>m</sub>-N(R<sup>2</sup>)-C(=NR<sup>2</sup>)-N(R<sup>2</sup>, R<sup>3</sup>), -CF<sub>3</sub>, -(CH<sub>2</sub>)<sub>m</sub>-O-R<sup>2</sup> and a 5-6  
15 membered aromatic heterocyclic ring containing 1-4 heteroatoms selected from N, O and S;

R<sup>2</sup> and R<sup>3</sup> are independently selected from the group consisting of:

-H, -C<sub>1-4</sub>alkyl and -C<sub>0-4</sub>alkyl-(carbocyclic aryl);

m is an integer of 0-2;

20 Q is selected from the group consisting of:



a direct link, -C<sub>1-4</sub>alkyl, -C<sub>2-4</sub>alkenyl, -C<sub>2-4</sub>alkynyl, -C(=O)-, -C(=NH)-, -C(=NMe)-, -N(-R<sup>4</sup>)-, -N(-R<sup>4</sup>)-CH<sub>2</sub>-, -C(=O)-N(-R<sup>4</sup>)-, -N(-R<sup>4</sup>)-C(=O)-, -S(=O)<sub>2</sub>-, -O-, -S(=O)<sub>2</sub>-N(-R<sup>4</sup>)- and -N(-R<sup>4</sup>)-S(=O)<sub>2</sub>-;

R<sup>4</sup> is selected from the group consisting of:

5           -H, -C<sub>1-4</sub>alkyl and -C<sub>0-4</sub>alkyl-(carbocyclic aryl);

D is selected from the group consisting of:

a direct link;

phenyl, which is substituted with 0-2 R<sup>1a</sup> groups; and

10           a 5-10 membered aromatic or non-aromatic heterocyclic ring system which may be a monocyclic ring system or a fused bicyclic ring system, wherein the heterocyclic ring system contains 1-4 heteroatoms selected from N, O and S and the ring system is substituted with 0-2 R<sup>1a</sup> groups;

R<sup>1a</sup> is independently selected from the group consisting of:

15           halo, -C<sub>1-4</sub>alkyl, -CN, -NO<sub>2</sub>, -(CH<sub>2</sub>)<sub>n</sub>-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -S(=O)<sub>2</sub>-N(-R<sup>2a</sup>, -R<sup>3a</sup>), -S(=O)<sub>2</sub>-R<sup>2a</sup>, -CF<sub>3</sub>, -(CH<sub>2</sub>)<sub>n</sub>-OR<sup>2a</sup>, -C(=O)-O-R<sup>2a</sup>, -C(=O)-N(-R<sup>2a</sup>, -R<sup>3a</sup>) and a 5-6 membered aromatic heterocyclic ring containing 1-4 heteroatoms selected from N, O and S;

n is an integer of 0-2;

R<sup>2a</sup> and R<sup>3a</sup> are independently selected from the group consisting of:

20           -H, -C<sub>1-4</sub>alkyl, and -C<sub>1-4</sub>alkyl-(carbocyclic aryl);

E is selected from the group consisting of:

a direct link,  $-(CH_2)_q-C(=O)-$ ,  $-(CH_2)_q-N(-R^5)-C(=O)-(CH_2)_x-$ ,  
 $-(CH_2)_q-C(=O)-N(-R^5)-(CH_2)_x-$ ,  $-(CH_2)_q-N(-R^5)-(CH_2)_x-$ ,  $-(CH_2)_q-N(R^5)CO-$   
 $NR^6(CH_2)_x-$  and  $-SO_2-$ ;

q and x are independently an integer of 0-2;

5  $R^5$  and  $R^6$  are independently selected from the group consisting of:

$-H$ ,  $-C_{1-4}alkyl$ ,  $-C_{0-4}alkyl-(carbocyclic\ aryl)$ ,  $-C_{0-4}alkyl-(monocyclic\ heteroaryl)$ ,  $-C_{1-4}alkyl-C(=O)-OH$  and  
 $-C_{1-4}alkyl-C(=O)-O-C_{1-4}alkyl$ ;

G is selected from the group consisting of:

10 phenyl, which is substituted with 0-2  $R^{1b}$  groups; and

a 5-6 membered aromatic heterocyclic ring containing 1-4 hetero atoms selected from O, S and N, wherein the heterocyclic ring is substituted with 0-2  $R^{1b}$  groups;

$R^{1b}$  is independently selected from the group consisting of:

15 halo,  $-C_{1-4}alkyl$ ,  $-CN$ ,  $-NO_2$ ,  $-N(-R^{2b}, -R^{3b})$ ,  $-C(=O)-N(-R^{2b}, -R^{3b})$ ,  
 $-S(=O)_2-N(-R^{2b}, -R^{3b})$ ,  $-S(=O)_2-R^{2b}$ ,  $-CF_3$ ,  $-O-R^{2b}$ ,  $-O-CH_2-CH_2-O-R^{2b}$ ,  
 $-O-CH_2-C(=O)-O-R^{2b}$ ,  $-N(-R^{2b})-CH_2-CH_2-O-R^{2b}$ ,  $-N(-CH_2-CH_2-O-R^{2b})_2$ ,  
 $-N(-R^{2b})-C(=O)-R^{3b}$ ,  $-N(-R^{2b})-S(=O)_2-R^{3b}$  and a 5-6 membered heterocyclic ring containing 1-4 heteroatoms selected from N, O and S;

20 alternatively, when two  $R^{1b}$  may be present on adjacent ring atoms of G and combine to form a benzene ring substituted with 0-4  $R^{1b'}$  groups or a 5-6 membered aromatic or non-aromatic heterocyclic ring having 1-3 heteroatoms selected from N, O and S substituted with 0-4  $R^{1b'}$  groups;

in a second alternative, one of the  $R^{1b}$  groups of G can cyclize with the  $-N-R^5$  group of E to form a 5-7 membered saturated, unsaturated or partially unsaturated heterocyclic ring containing 1-4 heteroatoms selected from N, O and S, which is substituted with 0-4  $R^{1b}$  groups, wherein two of the  $R^{1b}$  groups attached to the same ring carbon may form a  $(=O)$  group;

$R^{2b}$  and  $R^{3b}$  are independently selected from the group consisting of:

$-H$ ,  $-C_{1-4}alkyl$  and  $-C_{1-4}alkyl-(carbocyclic\ aryl)$ ;

$R^{1b'}$  is independently selected from the group consisting of:

halo,  $-C_{1-4}alkyl$ ,  $-CN$ ,  $-NO_2$ ,  $-N(-R^{2b'}, -R^{3b'})$ ,  $-C(=O)-N(-R^{2b'}, -R^{3b'})$ ,  
 $-S(=O)_2-N(-R^{2b'}, -R^{3b'})$ ,  $-S(=O)_2-R^{2b'}$ ,  $-CF_3$ ,  $-O-R^{2b'}$ ,  $-O-CH_2-CH_2-O-R^{2b'}$ ,  
 $-O-CH_2-C(=O)-O-R^{2b'}$ ,  $-N(-R^{2b'})-CH_2-CH_2-O-R^{2b'}$ ,  $-N(-CH_2-CH_2-O-R^{2b'})_2$ ,  
 $-N(-R^{2b'})-C(=O)-R^{3b'}$ ,  $-N(-R^{2b'})-S(=O)_2-R^{3b'}$ ;

$R^{2b'}$  and  $R^{3b'}$  are independently selected from the group consisting of:

$-H$ ,  $-C_{1-4}alkyl$  and  $-C_{1-4}alkyl-(carbocyclic\ aryl)$ ;

J is selected from the group consisting of:

a direct link,  $-S(=O)_2-$ ,  $-C(=O)-$ ,  $-N(-R^7)-S(=O)_2-$ ,  $-C(=O)-N(-R^7)-S(=O)_2-$ ,  
 $-C(=O)-N(-R^7)-(CH_2)_y-$ ,  $-S(=O)_2-N(-R^7)-$ ,  $-(CH_2)_y-$  and  
 $-N(-R^7)-C(=O)-(CH_2)_y-$ ;

y is an integer of 0-2;

$R^7$  is selected from the group consisting of:

$-H$ ,  $-C_{1-4}alkyl$ ,  $-C_{2-6}alkenyl$ ,  $-C_{2-6}alkynyl$ ,  $-C_{0-4}alkyl-(carbocyclic\ aryl)$ ,  
 $-C_{0-4}alkyl-(heterocyclic\ ring\ system)$ ,  $-CH_2-C(=O)-O-C_{1-4}alkyl$  and  
 $-CH_2-C(=O)-O-C_{1-4}alkyl-(carbocyclic\ aryl)$ ;

X is selected from the group consisting of:

phenyl, which is substituted with 0-3 R<sup>1c</sup> groups;

naphthyl, which is substituted with 0-3 R<sup>1c</sup> groups;

5 a 6-membered heteroaromatic ring containing from 1-2 nitrogen atoms, wherein the ring is substituted with 0-3 R<sup>1c</sup> groups; and

a fused heterobicyclic ring system, wherein the ring system contains 1-3 heteroatoms selected from N, O and S and is substituted with 0-3 R<sup>1c</sup> groups;

R<sup>1c</sup> is independently selected from the group consisting of:

10 halo, -C<sub>1-4</sub>alkyl, -CN, -NO<sub>2</sub>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -C(=O)-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -C(=NH)-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -C(=NMe)-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -S(=O)<sub>2</sub>-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -S(=O)<sub>2</sub>-R<sup>2c</sup>, -S(=O)<sub>2</sub>-O<sup>-</sup>, -CF<sub>3</sub>, -O-R<sup>2c</sup>, -O-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2c</sup>, -O-CH<sub>2</sub>-C(=O)-O-R<sup>2c</sup>, -N(-R<sup>2c</sup>)-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2c</sup>, -N(-CH<sub>2</sub>-CH<sub>2</sub>-O-R<sup>2c</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>)-C(=O)-R<sup>3c</sup>, -(CH<sub>2</sub>)<sub>z</sub>-N(-R<sup>2c</sup>)-S(=O)<sub>2</sub>-R<sup>3c</sup>, and a 5-6 membered heterocyclic ring containing 1-4 heteroatoms selected from N, O and S;

15 z is an integer of 0-2;

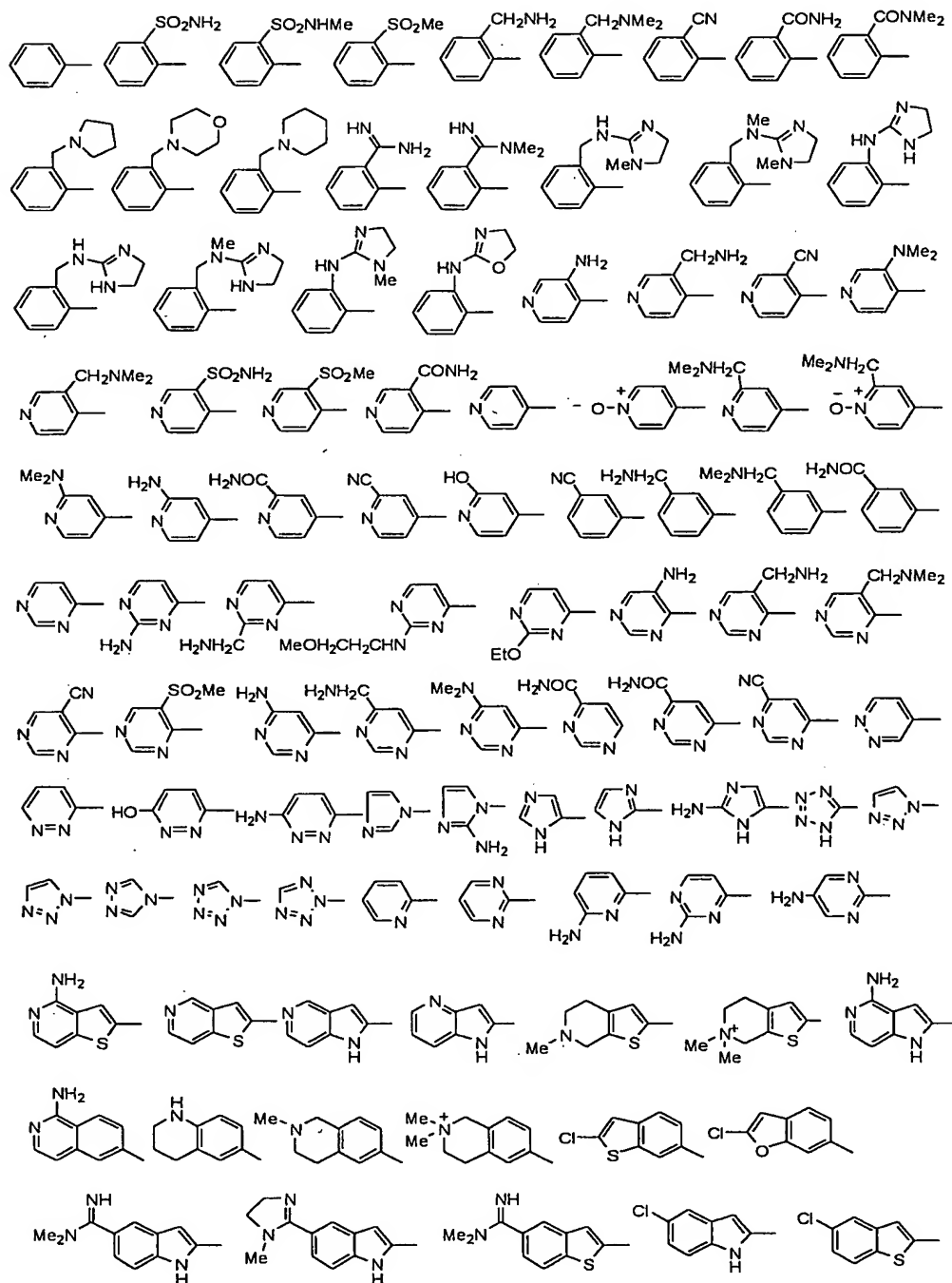
R<sup>2c</sup> and R<sup>3c</sup> are independently selected from the group consisting of:

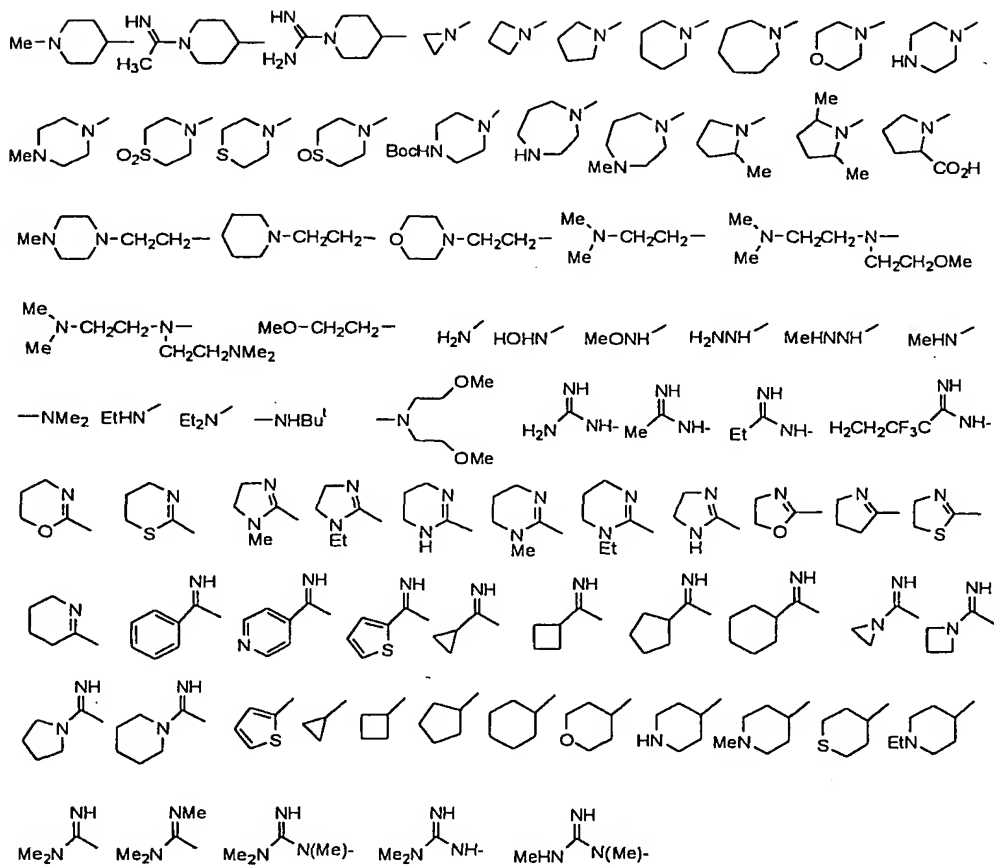
-H, -C<sub>1-4</sub>alkyl and -C<sub>1-4</sub>alkyl-(carbocyclic aryl);

and all pharmaceutically acceptable isomers, salts, hydrates, solvates and prodrug derivatives, thereof.

20 3. A compound of claim 1, wherein:

A is selected from the group consisting of:



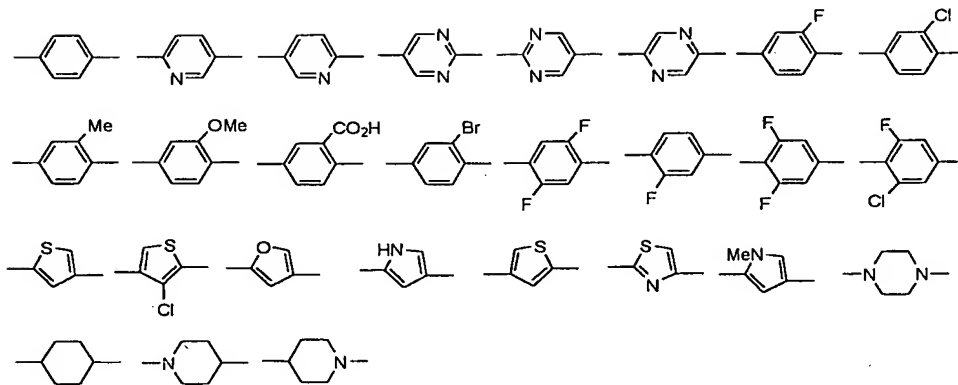


Q is selected from the group consisting of:

a direct link, -C(=NH), -C(=NMe)-, -C(=O)-, -CH<sub>2</sub>-, -NH-, -N(-CH<sub>3</sub>)-, -O-, -NH-CH<sub>2</sub>-, -CH<sub>2</sub>-NH-, -N(-CH<sub>3</sub>)-CH<sub>2</sub>-, and -CH<sub>2</sub>-N(-CH<sub>3</sub>)-;

5

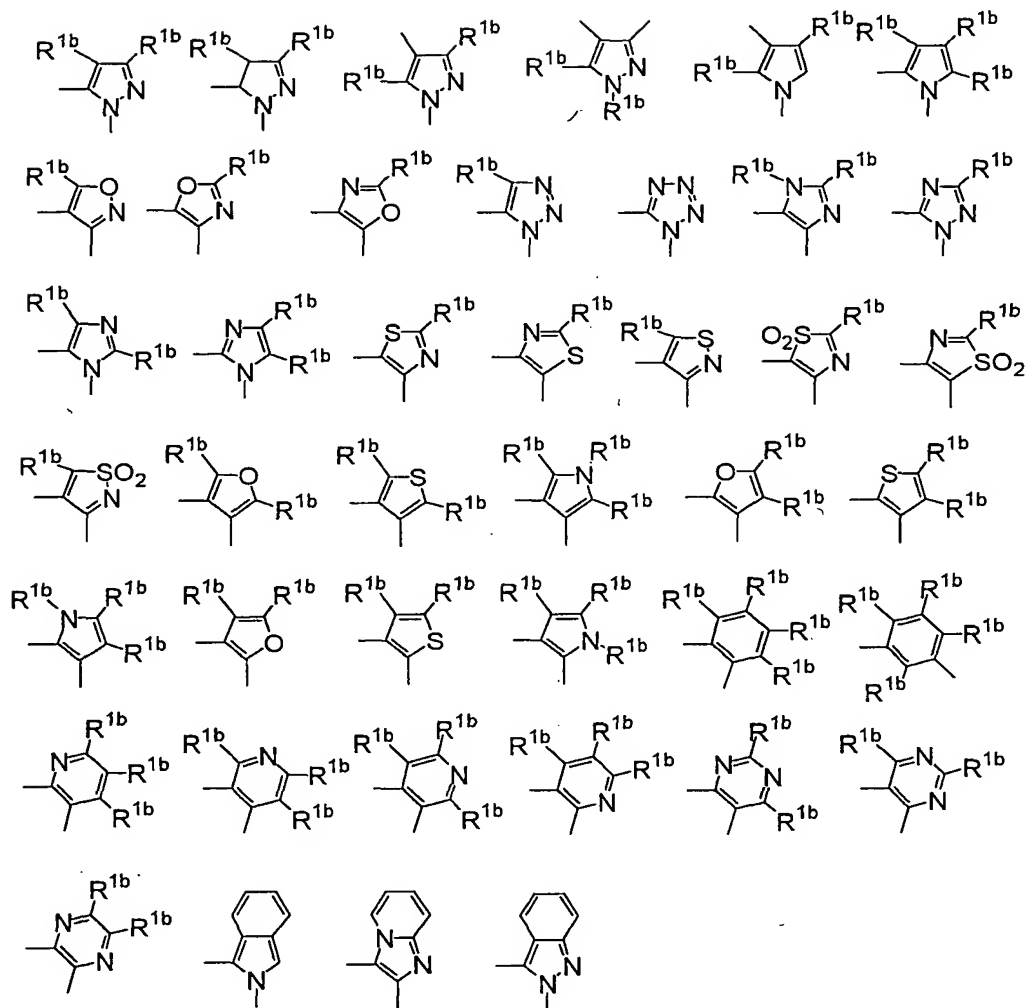
D is selected from the group consisting of:



E is selected from the group consisting of:

- 5 a direct link,  $-\text{NH}-\text{C}(=\text{O})-$ ,  $-\text{N}(-\text{CH}_3)-\text{C}(=\text{O})-$ ,  $-\text{N}(-\text{CH}_2\text{CO}_2\text{H})-\text{C}(=\text{O})-$ ,  $-\text{C}(=\text{O})-\text{NH}-$ ,  $-\text{C}(=\text{O})-\text{N}(-\text{CH}_3)-$ ,  $-\text{NH}-\text{CH}_2-$  and  $-\text{CH}_2-\text{NH}-$ ;

G is a member selected from the group consisting of:



$R^{1b}$  is selected from the group consisting of:

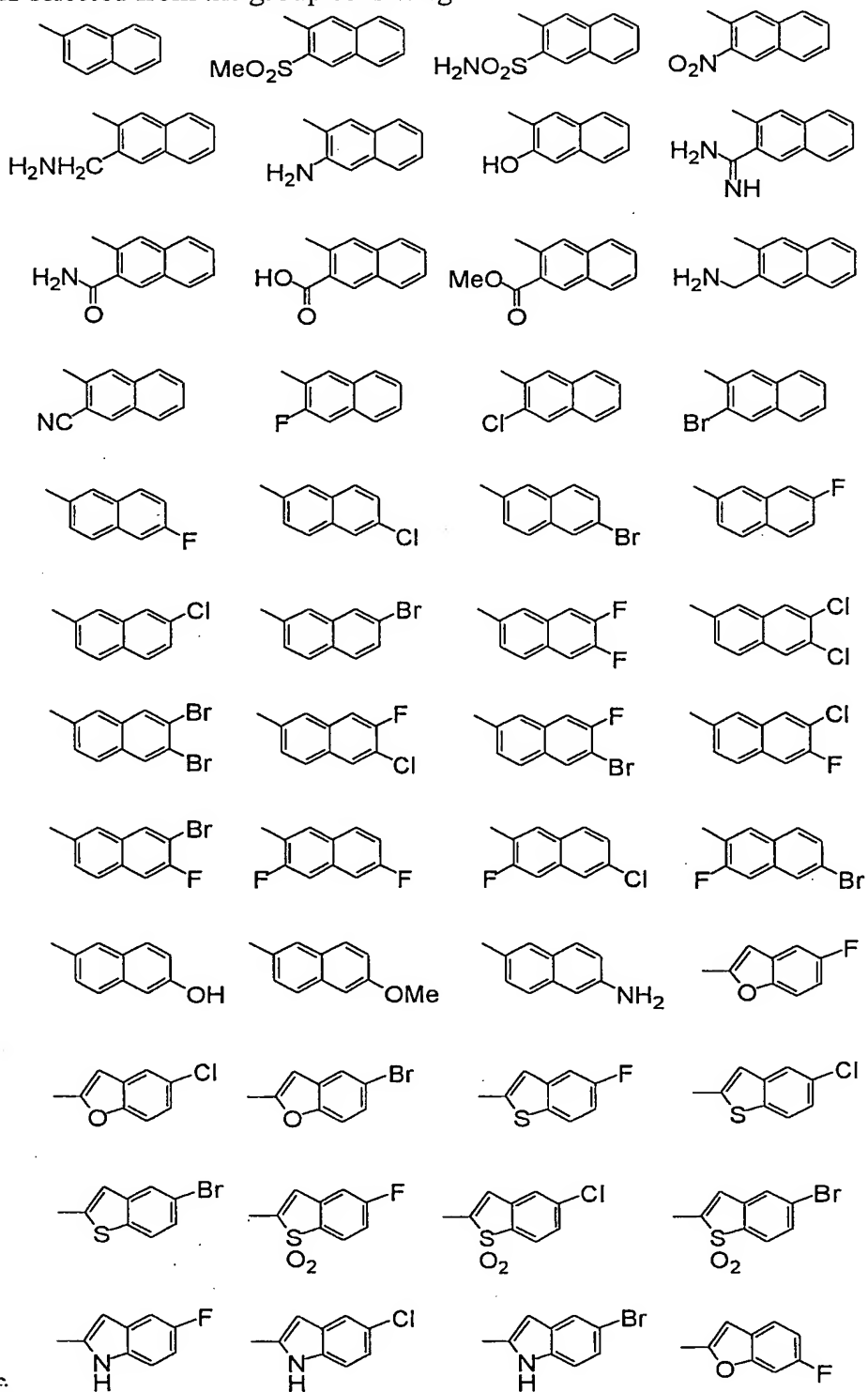
-H, -Me, -CF<sub>3</sub>, -F, -Cl, -Br, -SO<sub>2</sub>Me, -CN, -CONH<sub>2</sub>, -CONMe<sub>2</sub>, -NH<sub>2</sub>, -NO<sub>2</sub>, -NHCOMe, -NHSO<sub>2</sub>Me, -CH<sub>2</sub>NH<sub>2</sub> and -CO<sub>2</sub>H;

5 J is selected from the group consisting of:

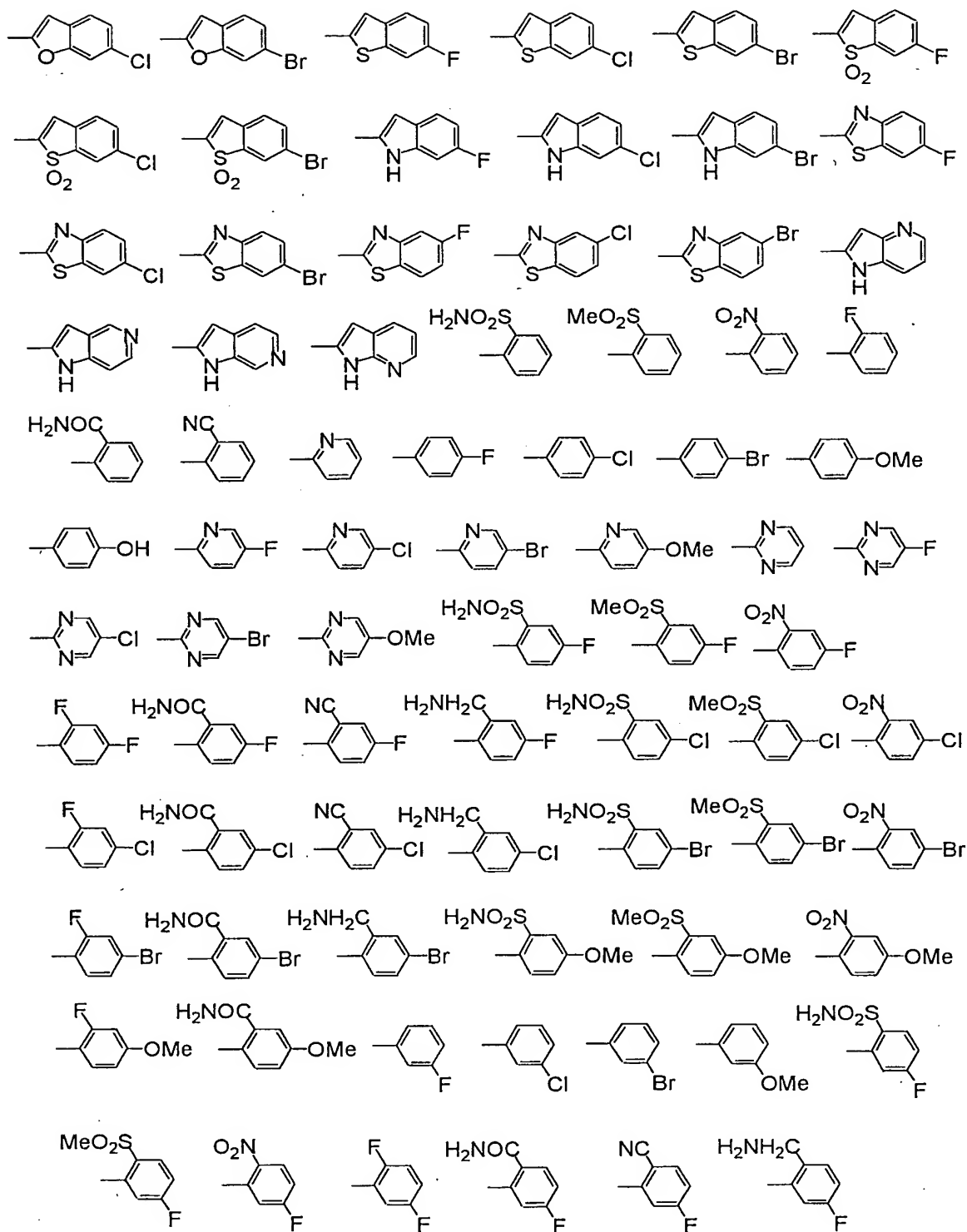
a direct link, -NH-, -O-, -S(=O)<sub>2</sub>-, -S(=O)<sub>2</sub>-NH, -NH-S(=O)<sub>2</sub>-, -C(=O)-, -NH-C(=O)- and -C(=O)-NH-;

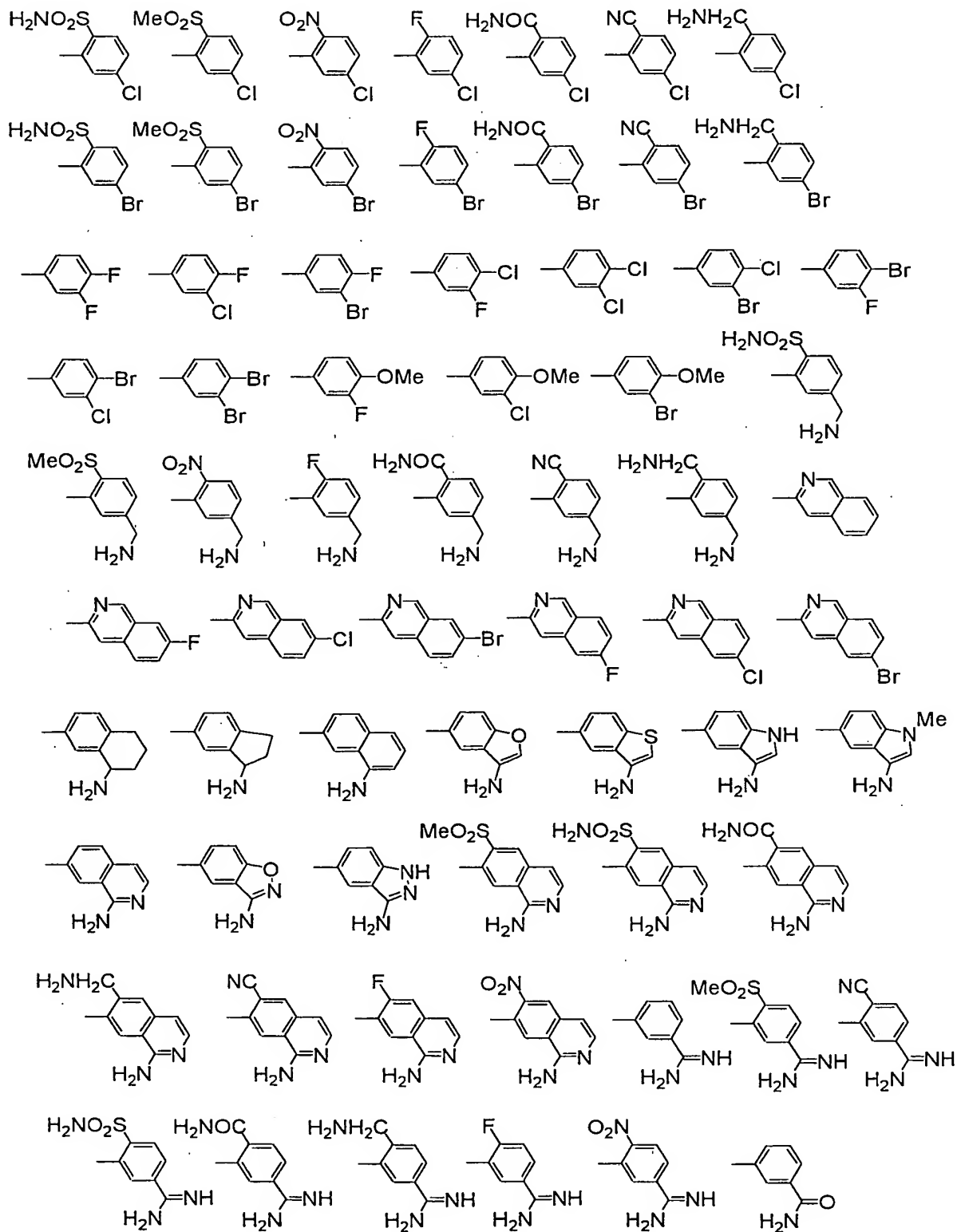


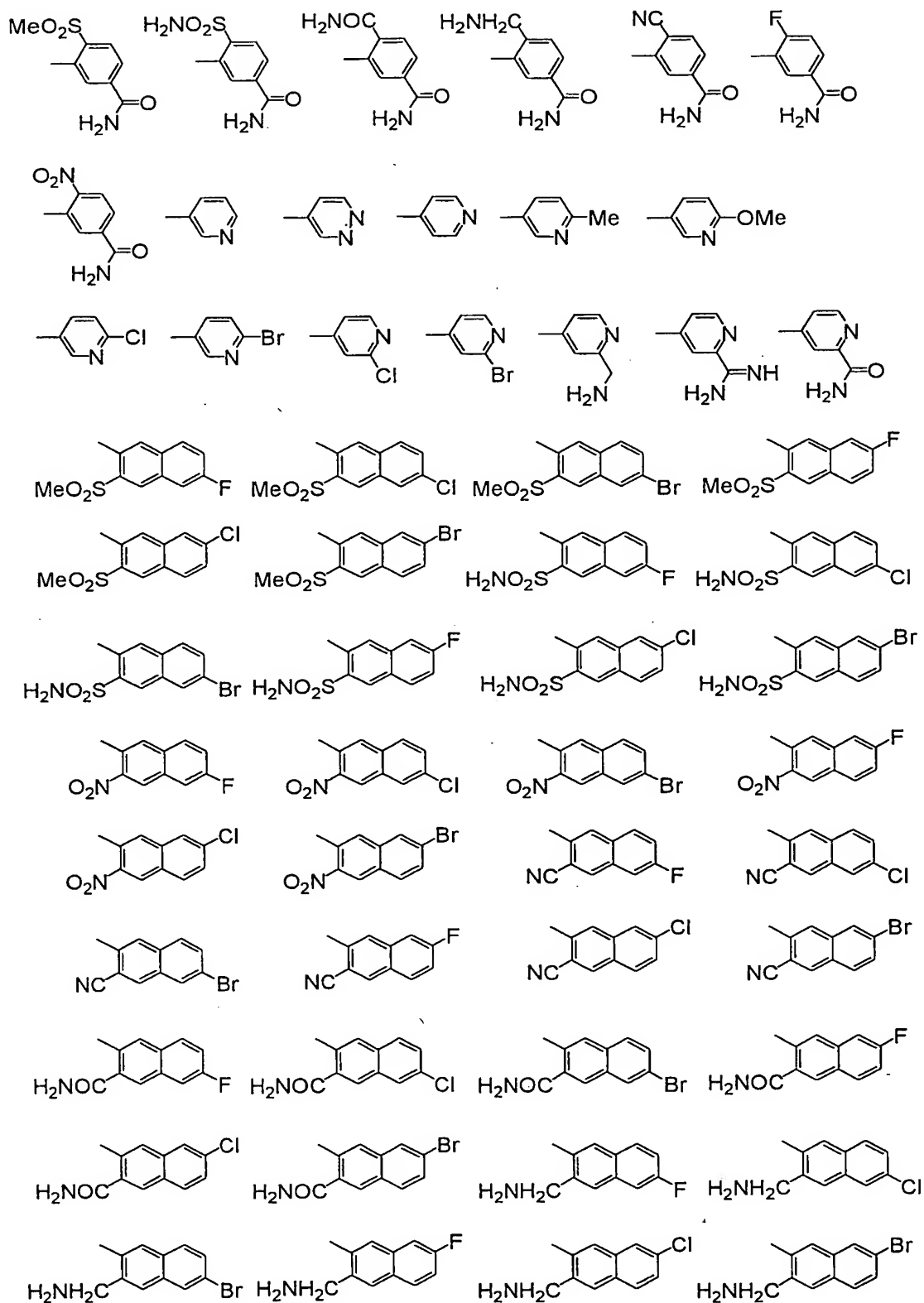
X is selected from the group consisting

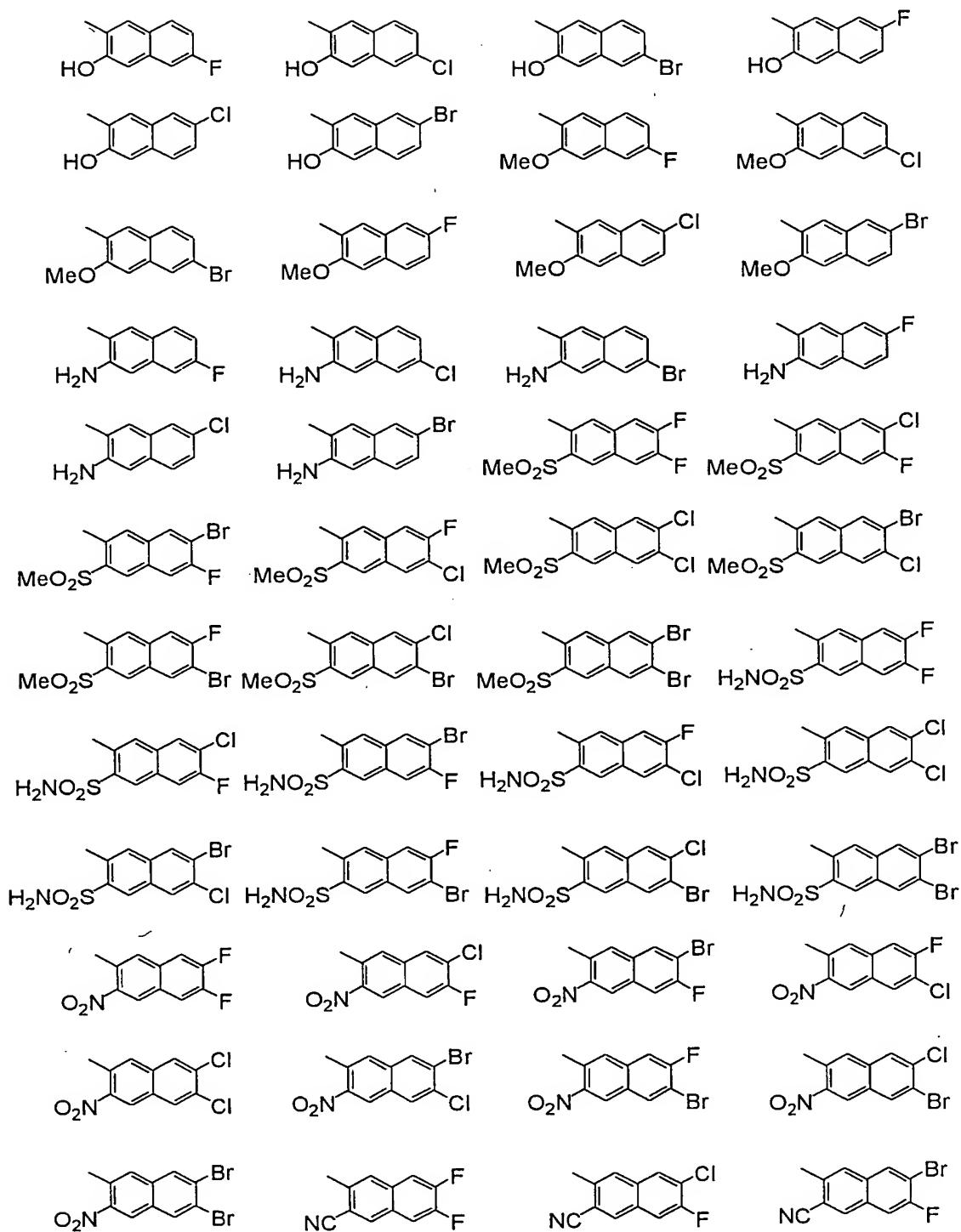


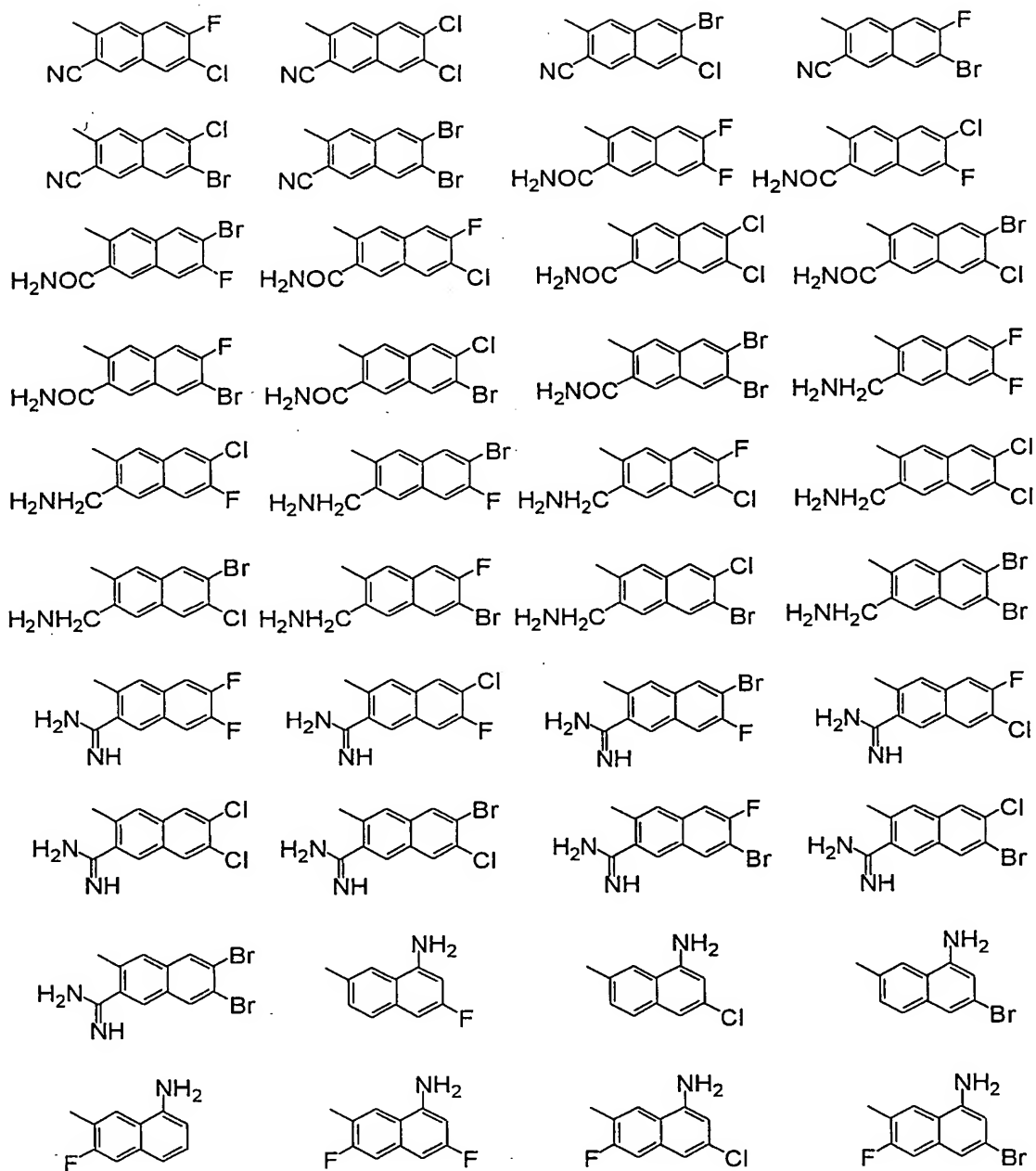
of:

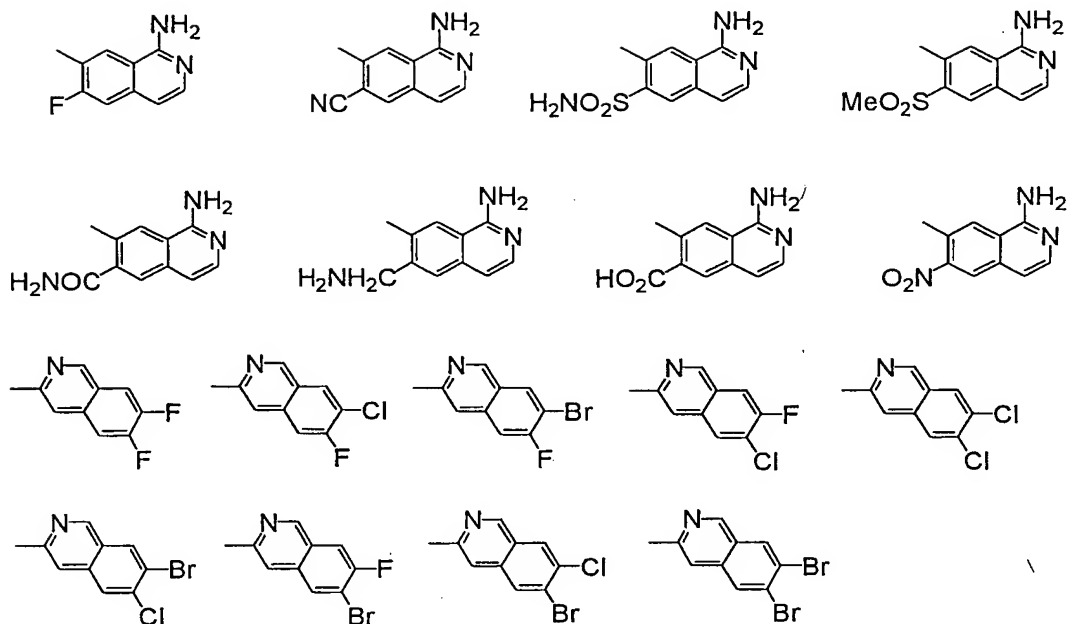












and all pharmaceutically acceptable isomers, salts, hydrates, solvates and prodrug derivatives, thereof.

5 4. A compound of claim 1, wherein:

A is selected from the group consisting of:

phenyl, which is substituted with 0-2  $R^1$  groups;

naphthyl, which is substituted with 1  $R^1$  group; and

a 5-7 membered aromatic or non-aromatic monocyclic heterocyclic ring,

10 wherein the heterocyclic ring contains 1-2 heteroatoms selected from N, O and S and is substituted with 0-1  $R^1$  groups;

$R^1$  is selected from the group consisting of:

$-S(=O)_2-N(-R^2, -R^3)$ ,  $-S(=O)_2-R^2$ ,  $-CH_2N(-R^2, -R^3)$ ,  $-CN$  and halo.

$R^2$  and  $R^3$  are independently selected from the group consisting of:

$-H$  and  $-C_{1-4}alkyl$ ;

Q is selected from the group consisting of:

5 a direct link,  $-C(=NH)$ ,  $-C(=NMe)-$ ,  $-C(=O)-$ ,  $-CH_2-$ ,  $-NH-$ , and  $-N(-CH_3)-$ ;

D is selected from the group consisting of:

a direct link;

phenyl, which is substituted with 0-2  $R^{1a}$  groups; and

10 a 5-6 membered aromatic heterocyclic ring, wherein the heterocyclic ring contains 1-2 heteroatoms selected from N and S and is substituted with 0-1  $R^{1a}$  groups;

$R^{1a}$  is selected from the group consisting of:

$-H$  and halo;

E is selected from the group consisting of:

15 a direct link,  $-NH-C(=O)-$  and  $-C(=O)-NH-$ ;

G is selected from the group consisting of:

Pyrazole, pyrazoline, triazole and tetrazole, which are substituted with 0-2  $R^{1b}$  groups; and

20 a 5-membered aromatic heterocyclic ring, wherein the heterocyclic ring contains 2 heteroatoms selected from N, O and S and is substituted with 0-1  $R^{1b}$  groups and;



R<sup>1b</sup> is selected from the group consisting of:

-Me, -Et, -CF<sub>3</sub>, -C(=O)-NH<sub>2</sub>, -NH<sub>2</sub>, -NH-C(=O)-Me, -NH-S(=O)<sub>2</sub>-Me, -SMe,  
-S(=O)<sub>2</sub>-Me and halo;

alternatively, when two R<sup>1b</sup> groups may be present on adjacent ring atoms of  
5 G and combine to form a benzene ring;

in a second alternative, one of the R<sup>1b</sup> groups of G can cyclize with the NH  
group of E to form a 5-6 membered non-aromatic heterocyclic ring containing  
1-2 nitrogen atoms and which is substituted with 0-2 C=O groups;

J is selected from the group consisting of:

10 a direct link, -NH-C(=O)- and -C(=O)-NH-;

X is selected from the group consisting of:

phenyl, which is substituted with 1-3 R<sup>1c</sup> groups;

naphthyl, which is substituted with 0-3 R<sup>1c</sup> groups;

pyridinyl, which is substituted with 1-3 R<sup>1c</sup> groups; and

15 a 9-10 membered fused bicyclic aromatic ring, wherein the aromatic ring  
contains 0-2 heteroatoms selected from N and O and is substituted with 0-3  
R<sup>1c</sup> groups;

R<sup>1c</sup> is independently selected from the group consisting of:

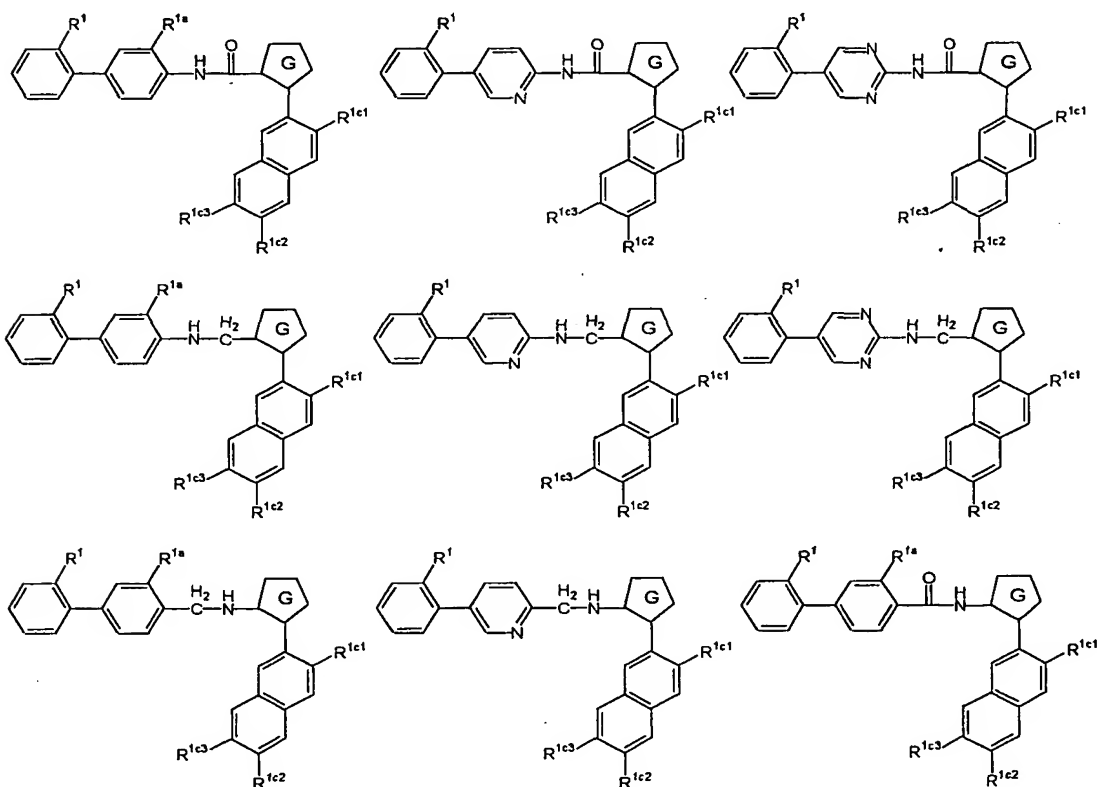
20 -H, halo, -Me, -CF<sub>3</sub>, -OH, -OMe, -NH<sub>2</sub>, -CN, -NO<sub>2</sub>, -CH<sub>2</sub>-R<sup>2c</sup>, -C(=O)-N(-R<sup>2c</sup>,  
-R<sup>3c</sup>), -S(=O)<sub>2</sub>-R<sup>2c</sup>, -S(=O)<sub>2</sub>-N(-R<sup>2c</sup>, -R<sup>3c</sup>), -S(=O)<sub>2</sub>-OH, -C(=NH)-N(-R<sup>2c</sup>, -  
R<sup>3c</sup>), 2-imidazolin-2-yl and 1-methyl-2-imidazolin-2-yl;

R<sup>2c</sup> and R<sup>3c</sup> are independently selected from the group consisting of:

-H, -OH, -NH<sub>2</sub> and -C<sub>1-4</sub>alkyl;

and all pharmaceutically acceptable isomers, salts, hydrates, solvates and prodrug derivatives, thereof.

5. The following compounds are claimed by the present invention:



wherein:

R<sup>1</sup> is selected from the group consisting of:

-SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>Me, -CH<sub>2</sub>NH<sub>2</sub> and -CH<sub>2</sub>NMe<sub>2</sub>;

10 R<sup>1a</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br;

$R^{1c1}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -NH<sub>2</sub>, -OH, -SO<sub>2</sub>Me, -SO<sub>2</sub>Et, -SO<sub>2</sub>NH<sub>2</sub>, -NO<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CN, -CONH<sub>2</sub>, -CH<sub>2</sub>OH;

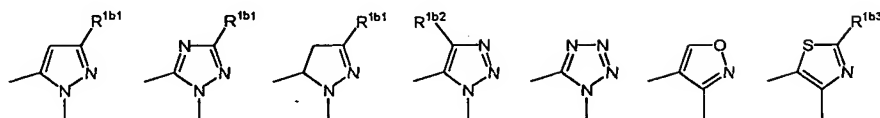
5  $R^{1c2}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

G is selected from the group consisting of:



10 wherein:

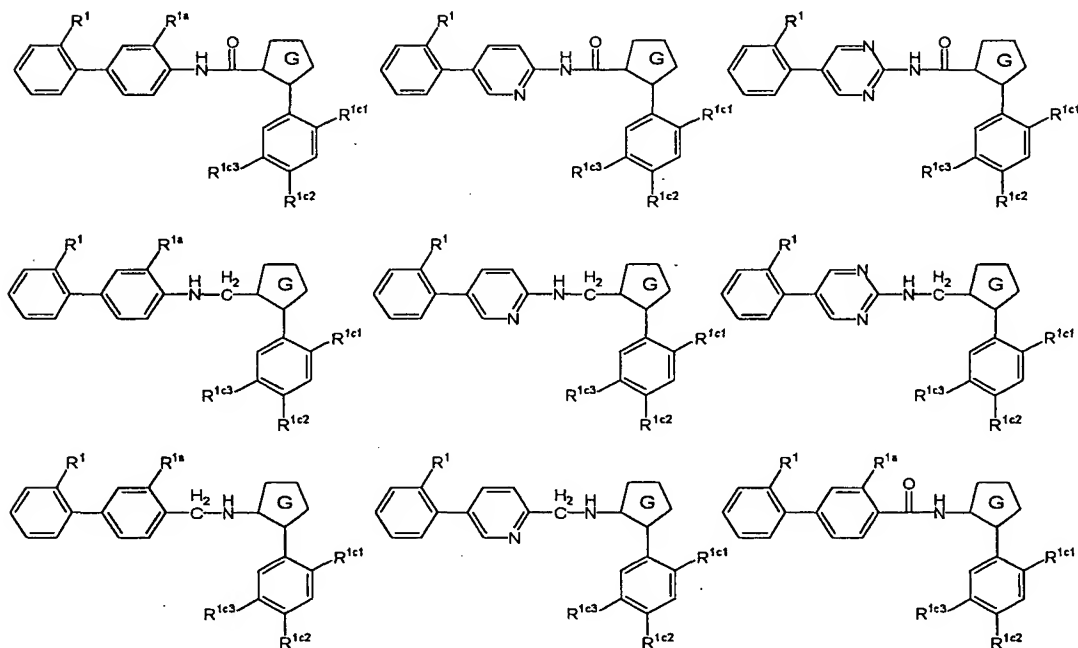
$R^{1b1}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b2}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b3}$  is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

15

6. The following compounds are claimed by the present invention:



wherein :

$R^1$  is selected from the group consisting of:

5             $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{CH}_2\text{NH}_2$  and  $-\text{CH}_2\text{NMe}_2$ ;

$R^{1a}$  is selected from the group consisting of:

$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

$R^{1c1}$  is selected from the group consisting of:

10             $-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ ,  $-\text{NH}_2$ ,  $-\text{OH}$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{SO}_2\text{Et}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{NO}_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CH}_2\text{OH}$ ;

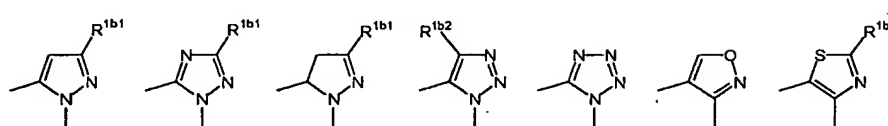
$R^{1c2}$  is selected from the group consisting of:

-H, -F, -Cl, -Br and -OMe;

R<sup>1c3</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>

G is selected from the group consisting of:



5 wherein:

R<sup>1b1</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

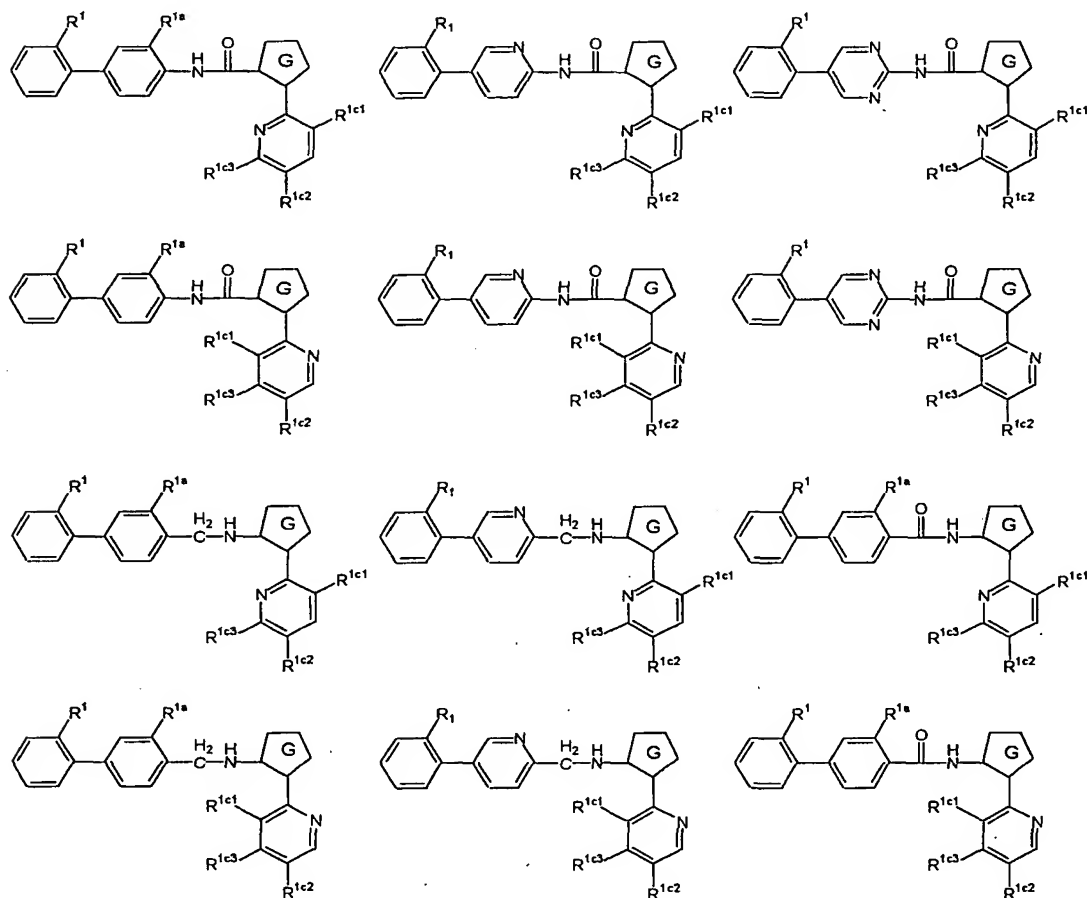
R<sup>1b2</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

R<sup>1b3</sup> is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

10

15

7. The following compounds are claimed by the present invention:



wherein:

$R^1$  is selected from the group consisting of:

- 5       $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}(\text{CH}_3)$ ,  $-\text{CON}(\text{CH}_3)_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CH}_2\text{NH}(\text{CH}_3)$ ,  $-\text{CH}_2\text{N}(\text{CH}_3)_2$ ;

$R^{1a}$  is selected from the group consisting of:

$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

R<sup>1c1</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>OH, -CONH<sub>2</sub>, -C(=NH)NH<sub>2</sub>, -CO<sub>2</sub>H, -CO<sub>2</sub>Me, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -NH<sub>2</sub>, and -NO<sub>2</sub>;

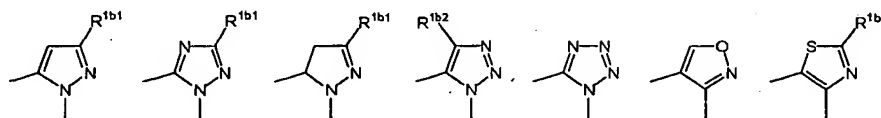
R<sup>1c2</sup> is selected from the group consisting of:

5        -H, -F, -Cl, -Br, and -OCH<sub>3</sub>;

R<sup>1c3</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>;

G is selected from the group consisting of:



wherein:

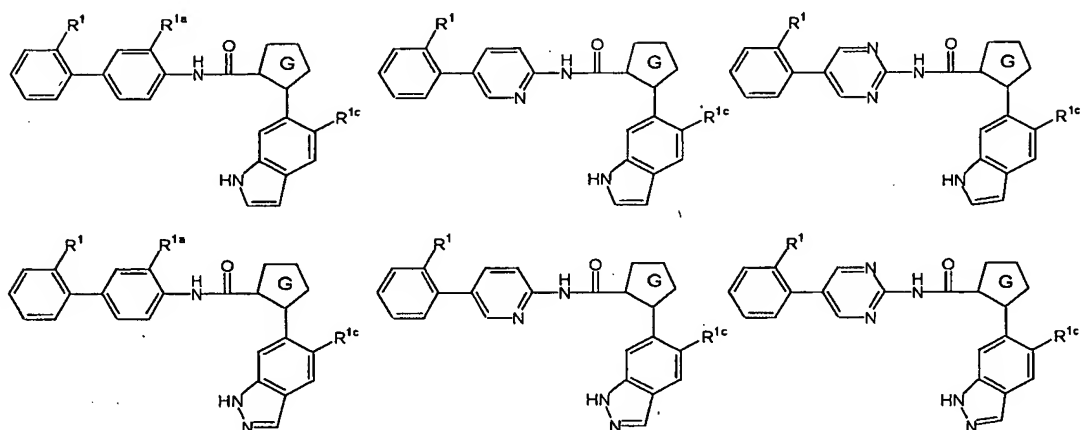
10        R<sup>1b1</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

R<sup>1b2</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

R<sup>1b3</sup> is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

15

8. The following compounds are claimed by the present invention:



wherein:

$R^1$  is selected from the group consisting of:

5         $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{CH}_2\text{NH}_2$  and  $-\text{CH}_2\text{NMe}_2$ ;

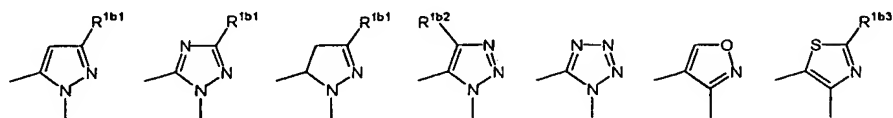
$R^{1a}$  is selected from the group consisting of:

$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

$R^{1c}$  is selected from the group consisting of:

10         $-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ ,  $-\text{NH}_2$ ,  $-\text{OH}$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{SO}_2\text{Et}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{NO}_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CH}_2\text{OH}$ ;

$G$  is selected from the group consisting of:



wherein:

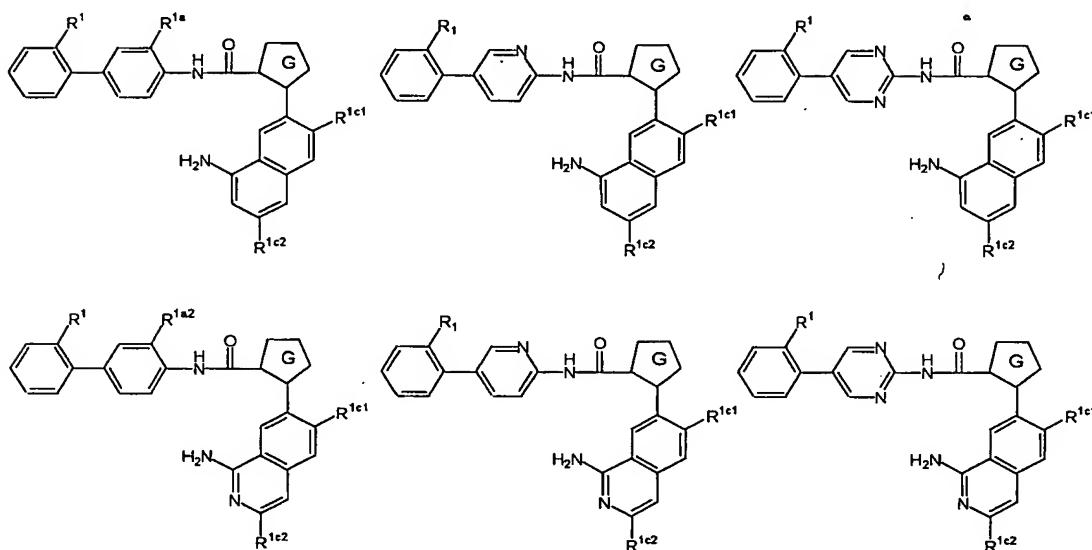


$R^{1b1}$  is selected from the group consisting of  $-H$ ,  $-CH_3$  and  $-CF_3$ ;

$R^{1b2}$  is selected from the group consisting of  $-H$ ,  $-CH_3$  and  $-CF_3$ ;

$R^{1b3}$  is selected from the group consisting of  $-Cl$ ,  $-NH_2$ ,  $-CH_3$  and  $-CF_3$ .

9. The following compounds are claimed by the present invention:



5 wherein:

$R^1$  is selected from the group consisting of:

$-SO_2NH_2$ ,  $-SO_2Me$ ,  $-CH_2NH_2$  and  $-CH_2NMe_2$ ;

$R^{1a}$  is selected from the group consisting of:

$-H$ ,  $-F$ ,  $-Cl$  and  $-Br$ ;

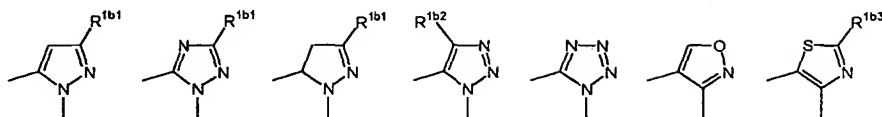
10  $R^{1c1}$  is selected from the group consisting of:

$-H$ ,  $-F$ ,  $-Cl$ ,  $-Br$ ,  $-NH_2$ ,  $-OH$ ,  $-SO_2Me$ ,  $-SO_2Et$ ,  $-SO_2NH_2$ ,  $-NO_2$ ,  $-CH_2NH_2$ ,  $-CN$ ,  $-CONH_2$ ,  $-CH_2OH$ ;

$R^{1c2}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

G is selected from the group consisting of:



5 wherein:

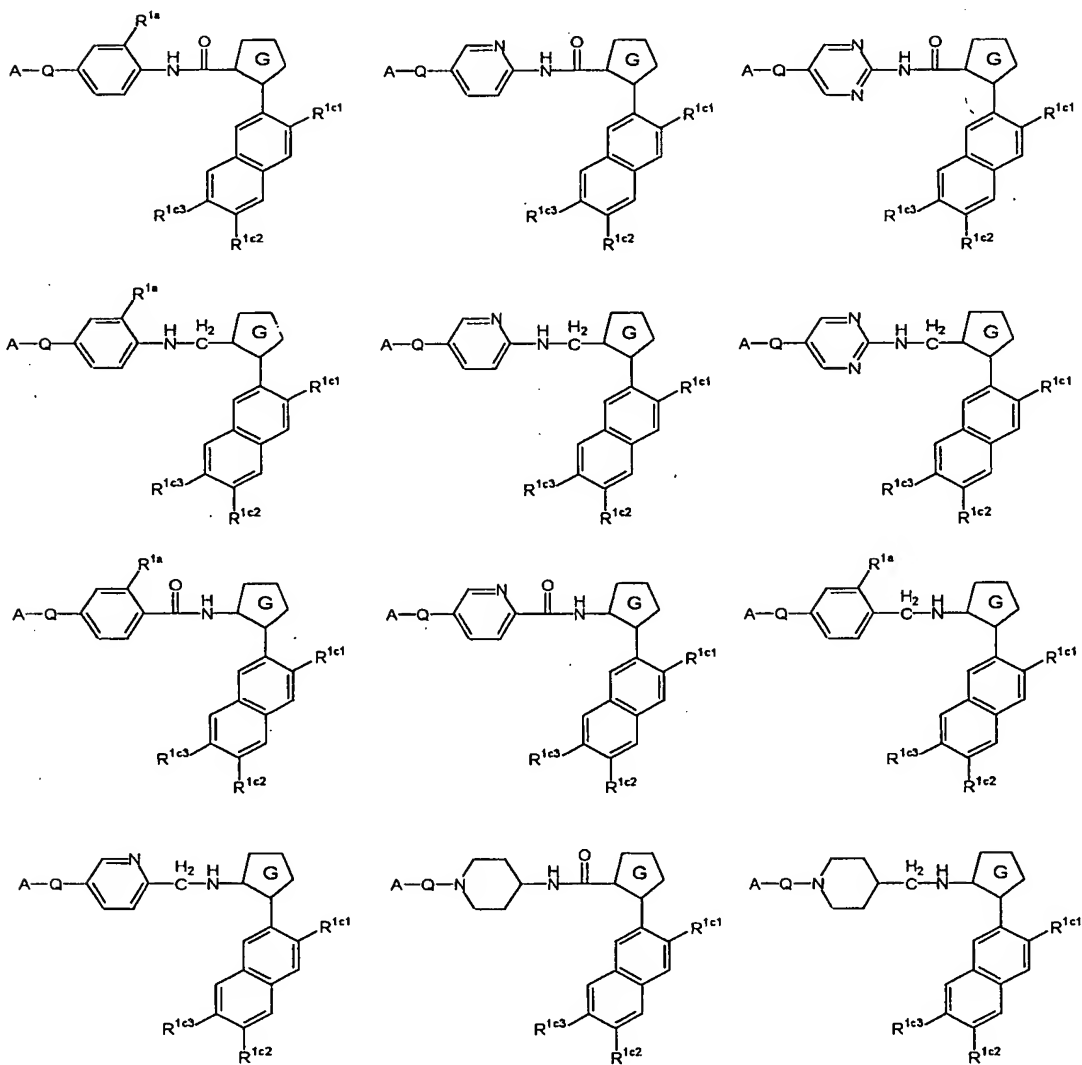
$R^{1b1}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b2}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b3}$  is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

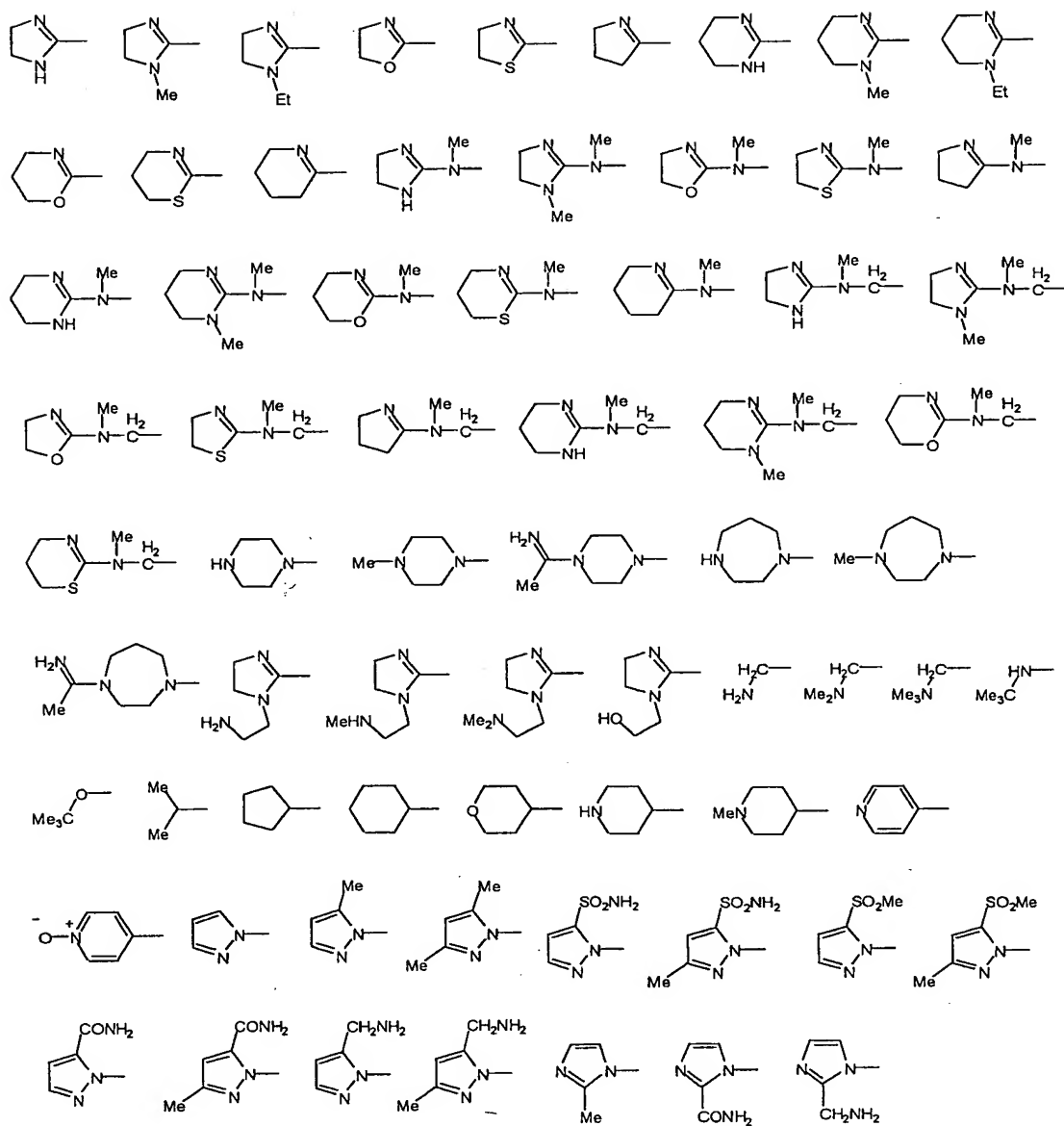
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10. The following compounds are claimed by the present invention:



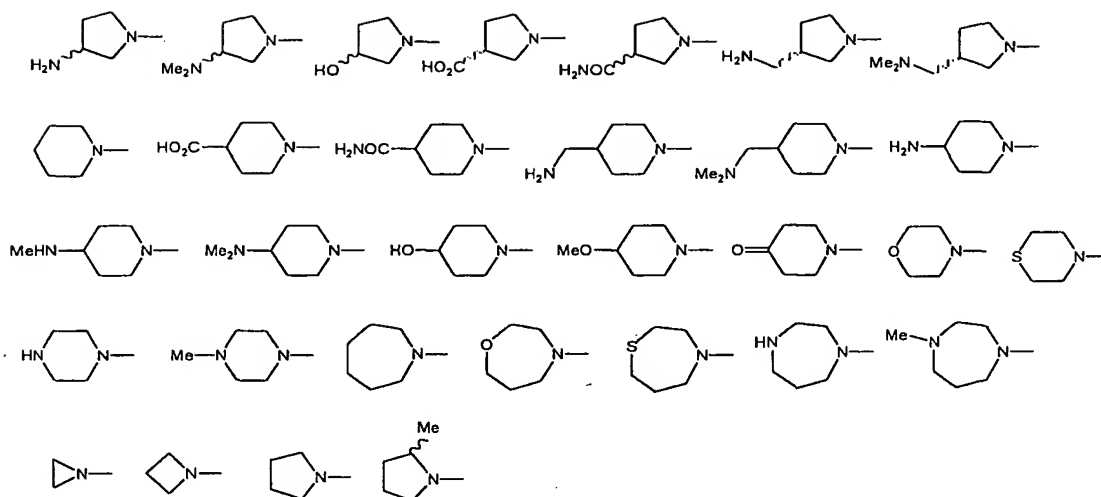
wherein:

A-Q is selected from the group consisting of:



wherein:

A is selected from the group consisting of:



R<sup>1a</sup> is selected from the group consisting of -H, -F, -Cl and -Br;

$R^{1cl}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -NH<sub>2</sub>, -OH, -SO<sub>2</sub>Me, -SO<sub>2</sub>Et, -SO<sub>2</sub>NH<sub>2</sub>, -NO<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CN, -CONH<sub>2</sub>, -CH<sub>2</sub>OH;

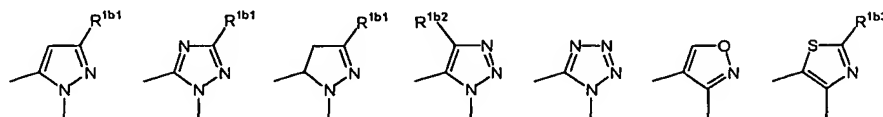
$R^{lc2}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

10 G is selected from the group consisting of:



wherein:

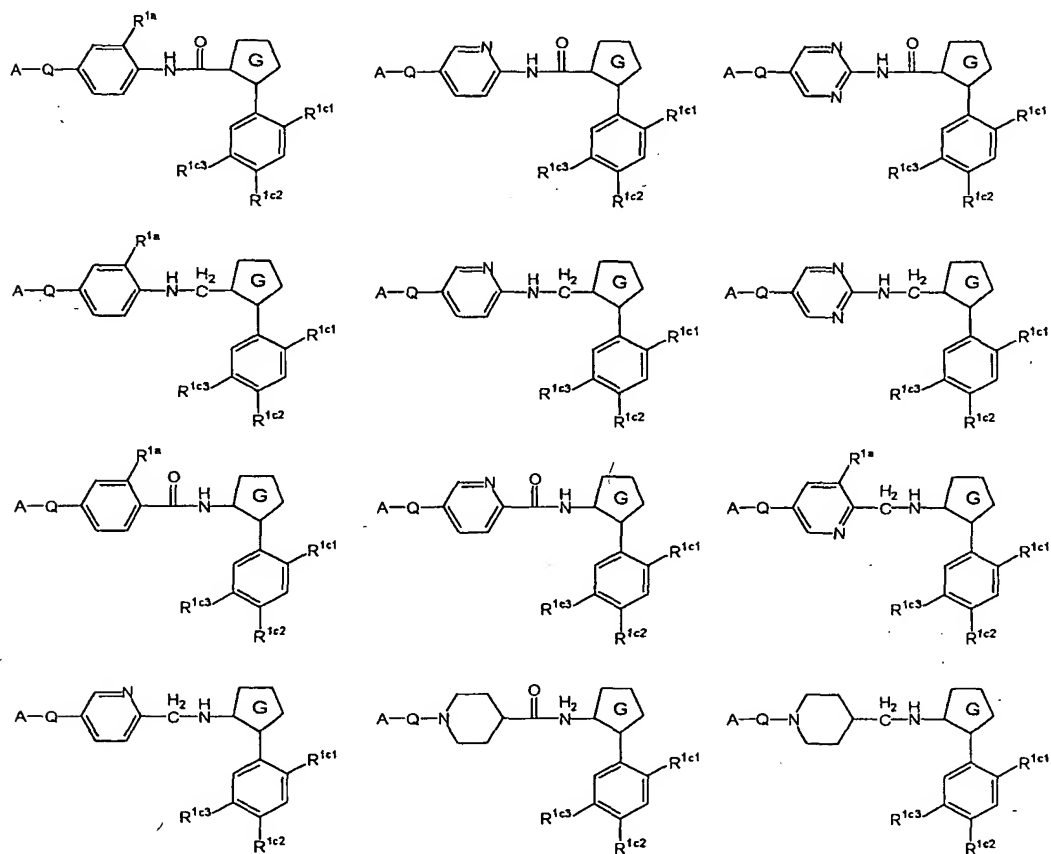
$R^{1b1}$  is selected from the group consisting of  $-H$ ,  $-CH_3$  and  $-CF_3$ ;

$R^{1b2}$  is selected from the group consisting of  $-H$ ,  $-CH_3$  and  $-CF_3$ ;

$R^{1b3}$  is selected from the group consisting of  $-Cl$ ,  $-NH_2$ ,  $-CH_3$  and  $-CF_3$ .

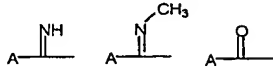
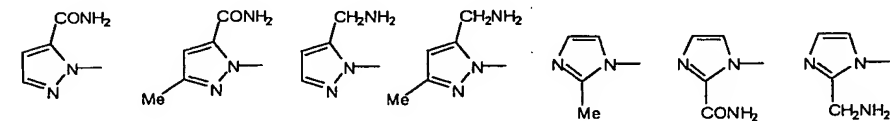
5

11. The following compounds are claimed by the present invention:



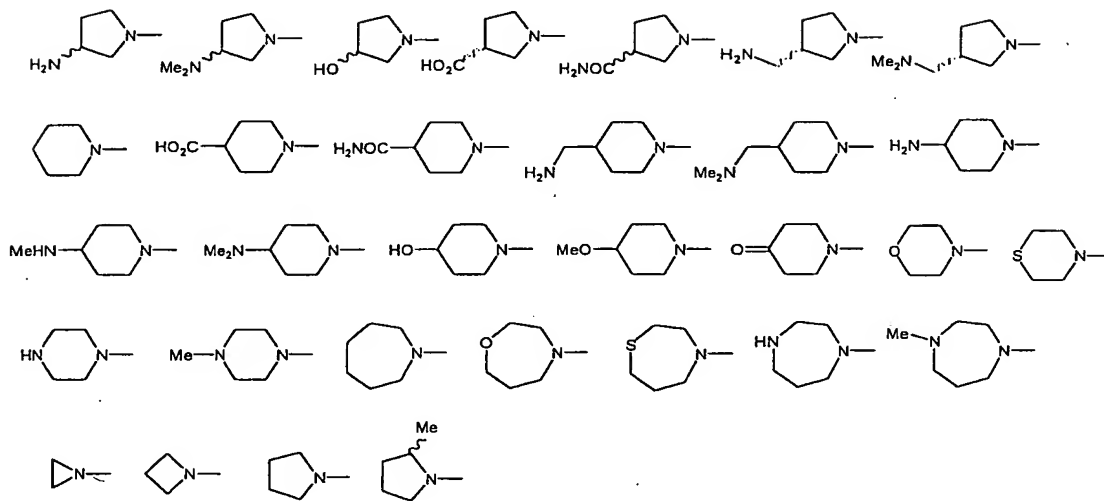
wherein:

A-Q is selected from the group consisting of:



wherein:

A is selected from the group consisting of:



5  $R^{1a}$  is selected from the group consisting of:

-H, -F, -Cl and -Br;

$R^{1b}$  is selected from the group consisting of:

-CH<sub>3</sub>, -CF<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -SO<sub>2</sub>Me, -CONH<sub>2</sub> and -NHSO<sub>2</sub>Me;

$R^{1c1}$  is selected from the group consisting of:

10 -H, -F, -Cl, -Br, -NH<sub>2</sub>, -OH, -SO<sub>2</sub>Me, -SO<sub>2</sub>Et, -SO<sub>2</sub>NH<sub>2</sub>, -NO<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CN, -CONH<sub>2</sub>, -CH<sub>2</sub>OH;

$R^{1c2}$  is selected from the group consisting of:

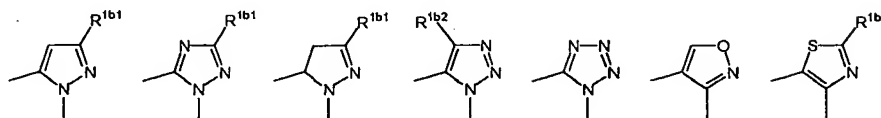
-H, -F, -Cl, -Br and -OMe;



$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -OH, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CONH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>;

G is selected from the group consisting of:



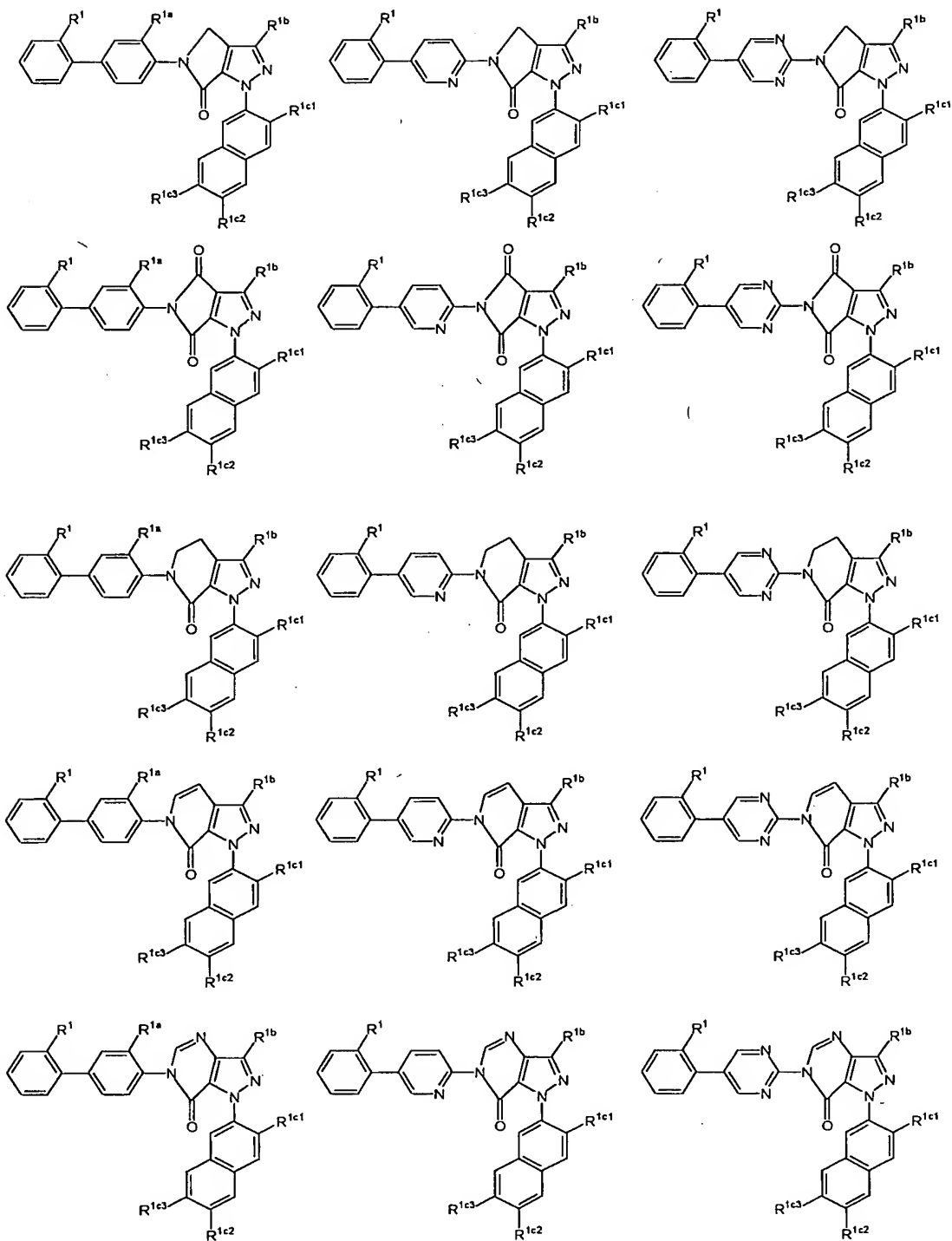
wherein:

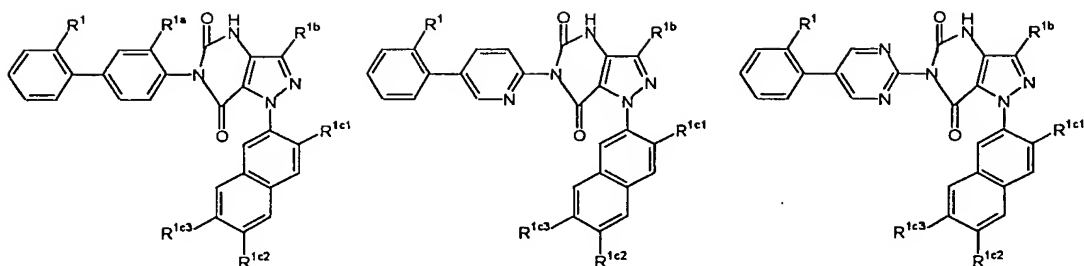
5  $R^{1b1}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b2}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b3}$  is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

12. The following compounds are claimed by the present invention:





5 wherein:

$R^1$  is selected from the group consisting of:

$-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}(\text{CH}_3)$ ,  $-\text{CON}(\text{CH}_3)_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CH}_2\text{NH}(\text{CH}_3)$ ,  $-\text{CH}_2\text{N}(\text{CH}_3)_2$ ;

$R^{1a}$  is selected from the group consisting of:

10  $-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $\text{Br}$ ;

$R^{1b}$  is selected from the group consisting of:

$-\text{CH}_3$  and  $-\text{CF}_3$ ;

$R^{1c1}$  is selected from the group consisting of:

15  $-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ ,  $-\text{CN}$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CH}_2\text{OH}$ ,  $-\text{CONH}_2$ ,  $-\text{C}(=\text{NH})\text{NH}_2$ ,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{Me}$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{OH}$ ,  $-\text{NH}_2$ , and  $-\text{NO}_2$ ;

$R^{1c2}$  is selected from the group consisting of:

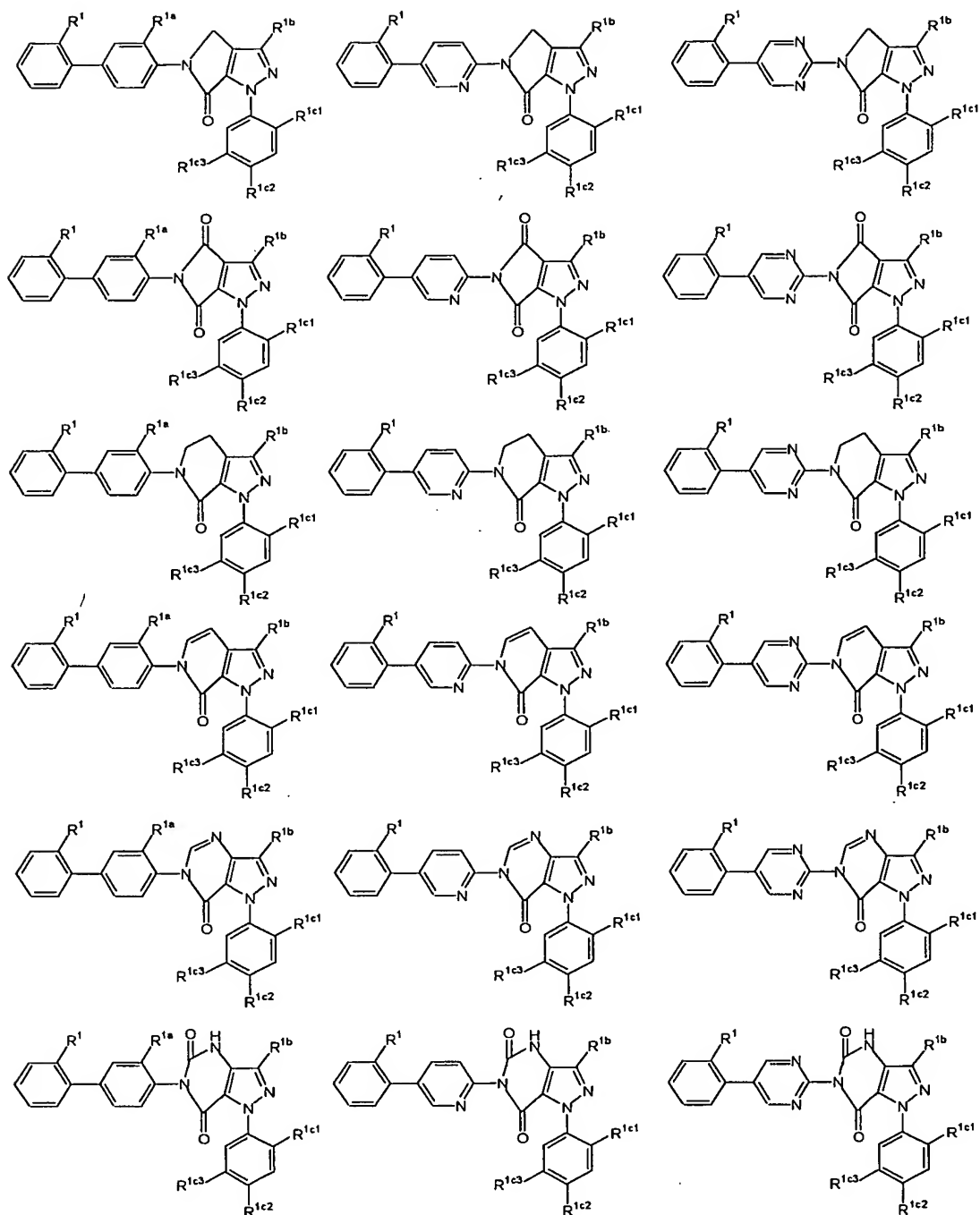
$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl and -Br.

13. The following compounds are claimed by the present invention:

5



wherein:

R¹ᵃ is selected from the group consisting of:

-H, -F, -Cl and -Br;

R<sup>1b</sup> is selected from the group consisting of:

-CH<sub>3</sub>, -CF<sub>3</sub>, -CH<sub>2</sub>CH<sub>3</sub>, -SO<sub>2</sub>Me, -CONH<sub>2</sub> and -NHSO<sub>2</sub>Me;

R<sup>1c1</sup> is selected from the group consisting of:

5        -H, -F, -Cl, -Br, -NH<sub>2</sub>, -OH, -SO<sub>2</sub>Me, -SO<sub>2</sub>Et, -SO<sub>2</sub>NH<sub>2</sub>, -NO<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -  
CN, -CONH<sub>2</sub>, -CH<sub>2</sub>OH;

R<sup>1c2</sup> is selected from the group consisting of:

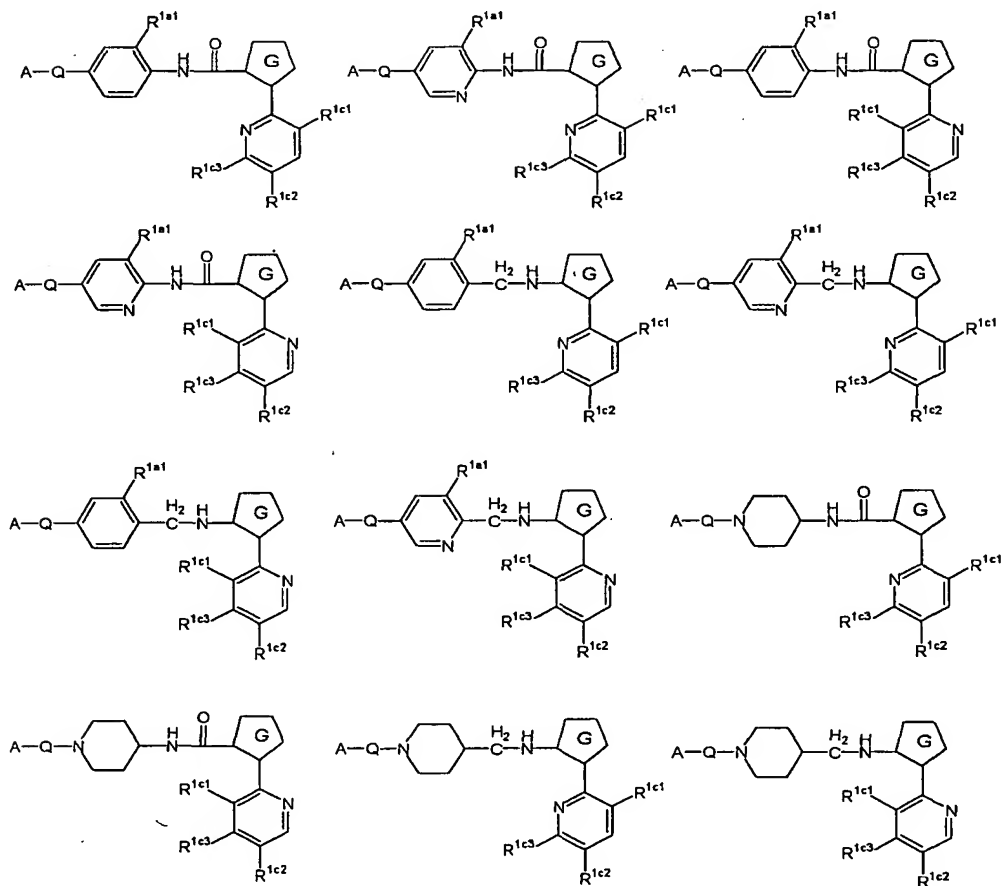
-H, -F, -Cl, -Br and -OCH<sub>3</sub>;

R<sup>1c3</sup> is selected from the group consisting of:

10        -H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>.

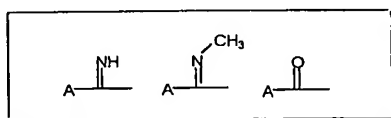
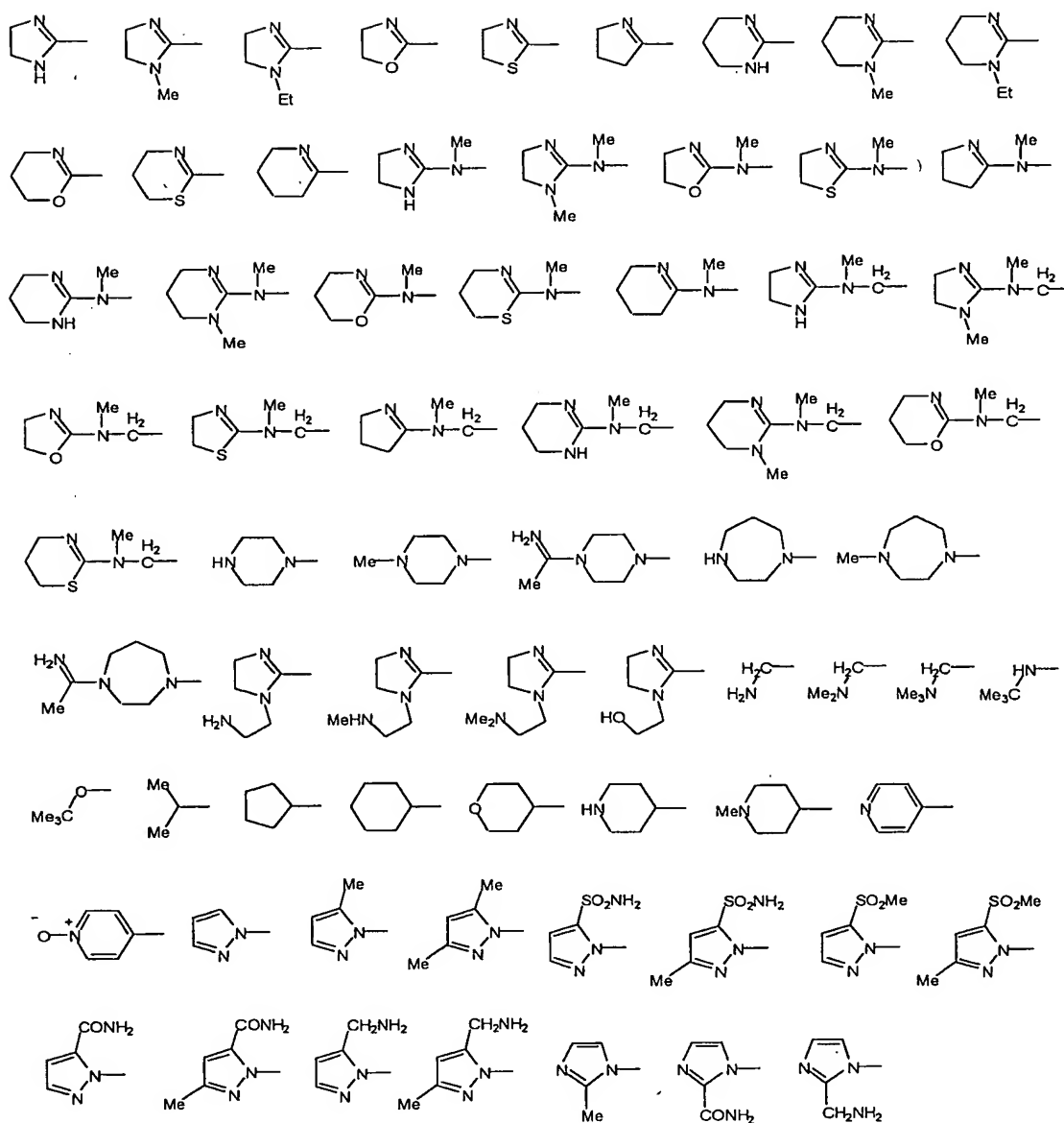
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14. The following compounds are claimed by the present invention:



wherein:

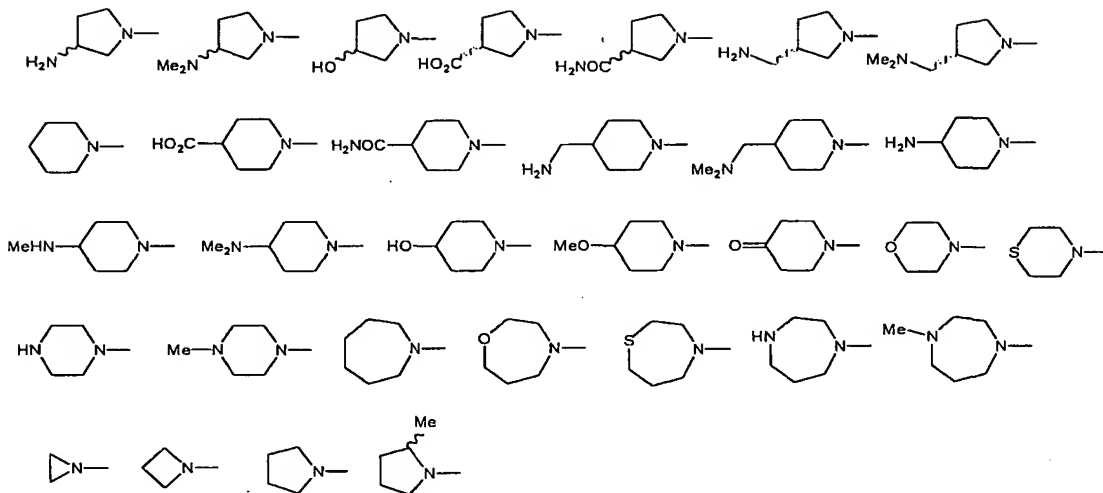
$A-Q$  is selected from the group consisting of:





wherein:

A is selected from the group consisting of:



- 5 R<sup>1a</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br;

$R^{1cl}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>OH, -CONH<sub>2</sub>, -C(=NH)NH<sub>2</sub>, -CO<sub>2</sub>H, -CO<sub>2</sub>Me, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -NH<sub>2</sub>, and -NO<sub>2</sub>;

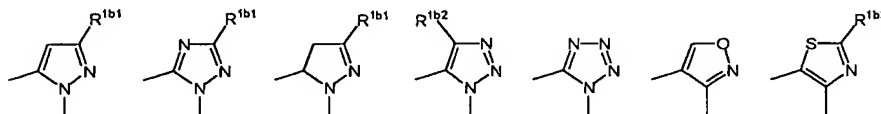
- 10  $R^{1c2}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, and -OCH<sub>3</sub>;

$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>;

G is selected from the group consisting of:



wherein:

5 R<sup>1b1</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

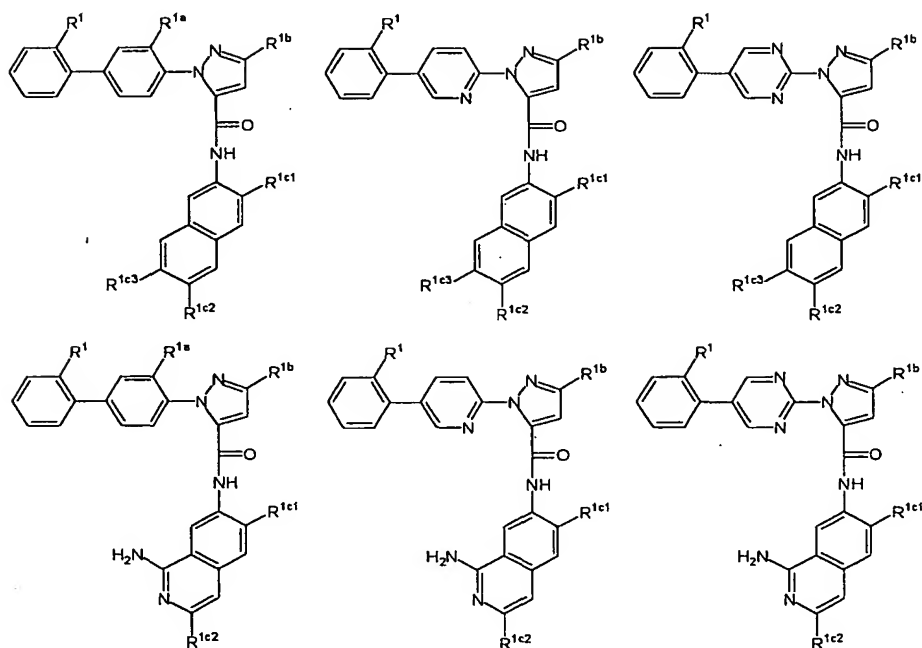
R<sup>1b2</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

R<sup>1b3</sup> is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

10

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15. The following compounds are claimed by the present invention:



wherein:

$R^1$  is selected from the group consisting of:

- 5            $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}(\text{CH}_3)$ ,  $-\text{CON}(\text{CH}_3)_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CH}_2\text{NH}(\text{CH}_3)$ ,  $-\text{CH}_2\text{N}(\text{CH}_3)_2$ ;

$R^{1a}$  is selected from the group consisting of:

$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

$R^{1b}$  is selected from the group consisting of:

- 10            $-\text{H}$ ,  $-\text{CH}_3$  and  $-\text{CF}_3$ ;

$R^{1c1}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>OH, -CONH<sub>2</sub>, -C(=NH)NH<sub>2</sub>, -CO<sub>2</sub>H, -CO<sub>2</sub>Me, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -NH<sub>2</sub>, and -NO<sub>2</sub>;

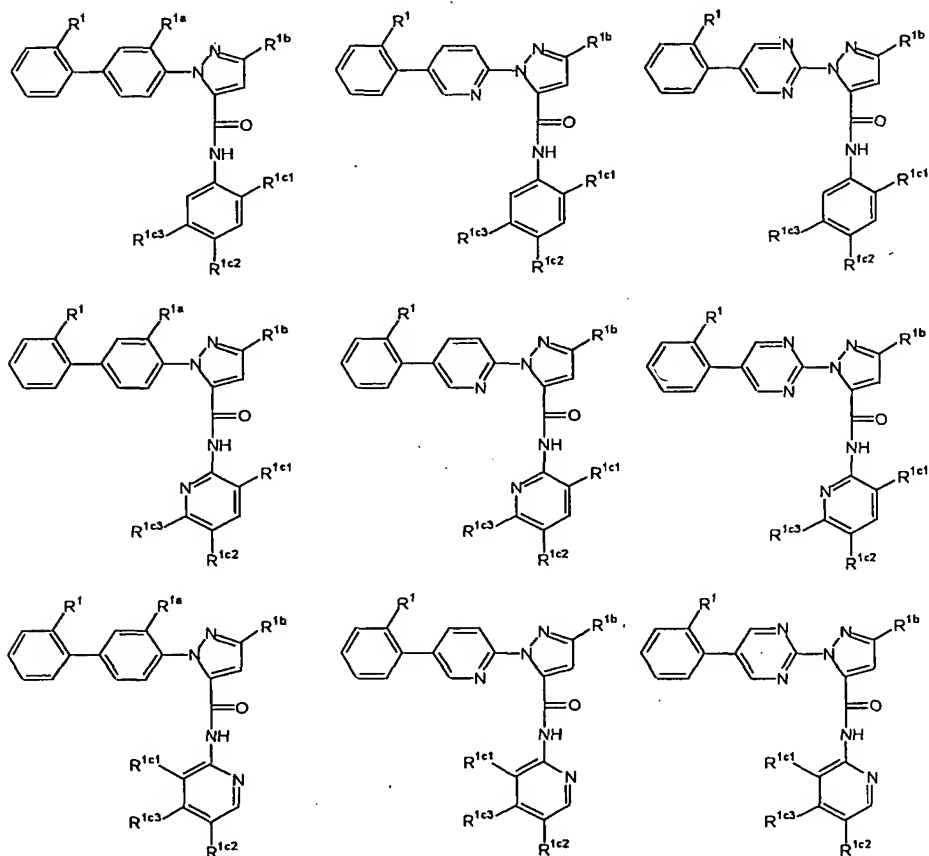
R<sup>1c2</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br;

5 R<sup>1c3</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br.

16. The following compounds are claimed by the present invention:



wherein:

R<sup>1</sup> is selected from the group consisting of:

-SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>CH<sub>3</sub>, -CN, -CONH<sub>2</sub>, -CONH(CH<sub>3</sub>), -CON(CH<sub>3</sub>)<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -  
CH<sub>2</sub>NH(CH<sub>3</sub>), -CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>;

5 R<sup>1a</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br;

R<sup>1b</sup> is selected from the group consisting of:

-H, -CH<sub>3</sub> and -CF<sub>3</sub>;

R<sup>1c1</sup> is selected from the group consisting of:

10 -H, -F, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub> and -NO<sub>2</sub>;

R<sup>1c2</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br and -OCH<sub>3</sub>;

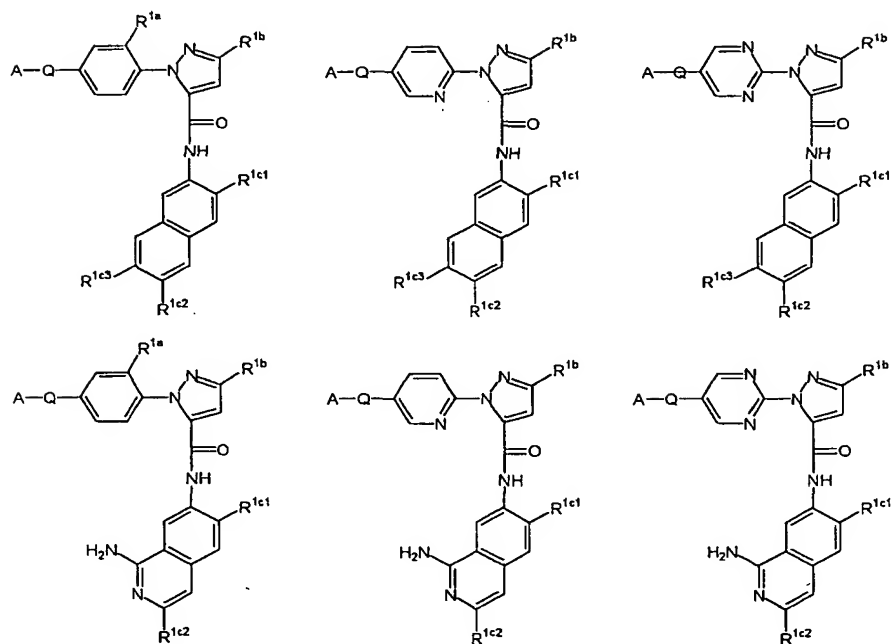
R<sup>1c3</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>.

15

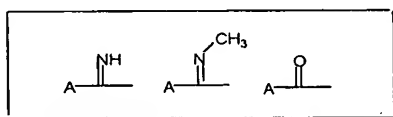
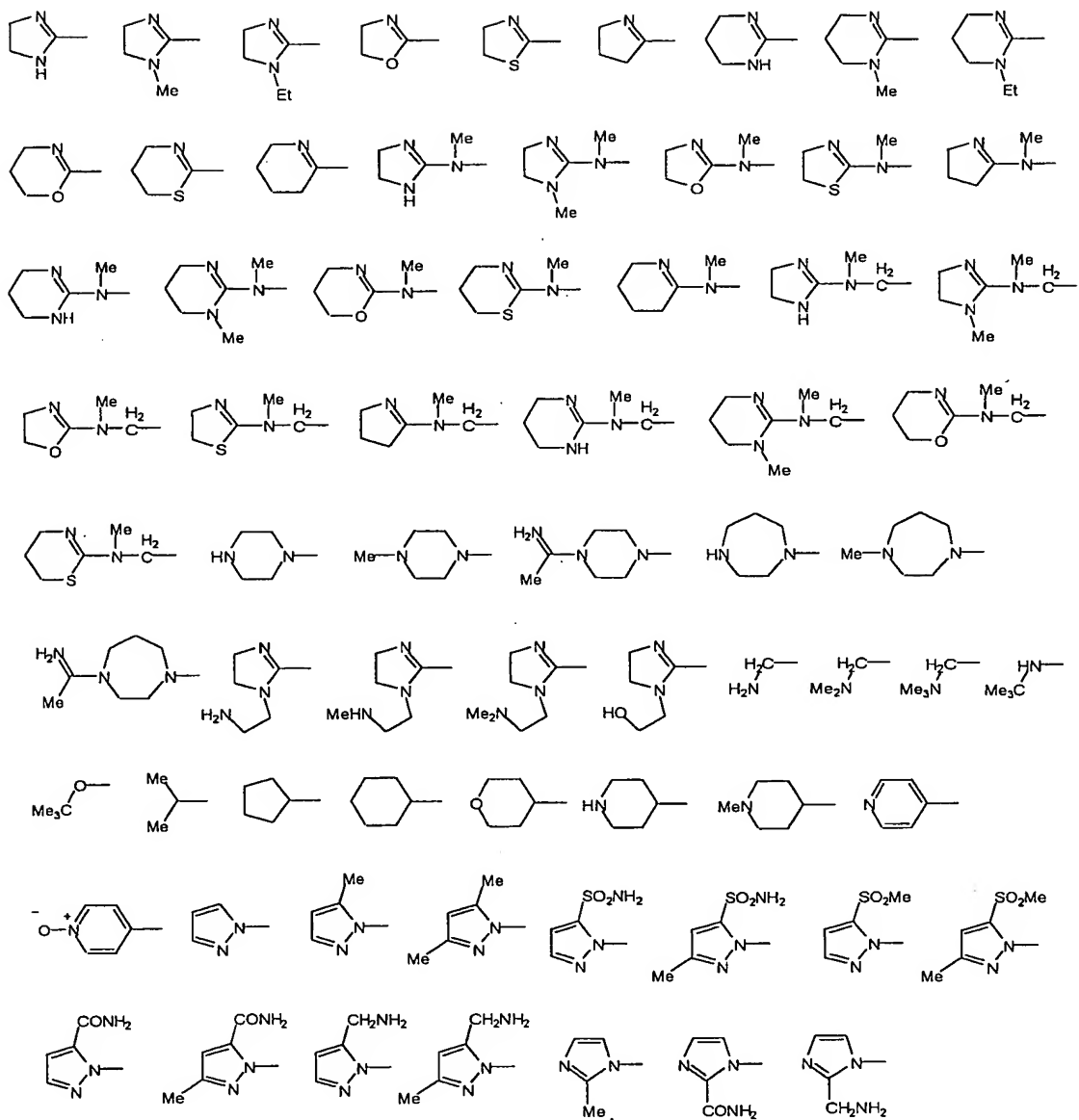
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17. The following compounds are claimed by the present invention:



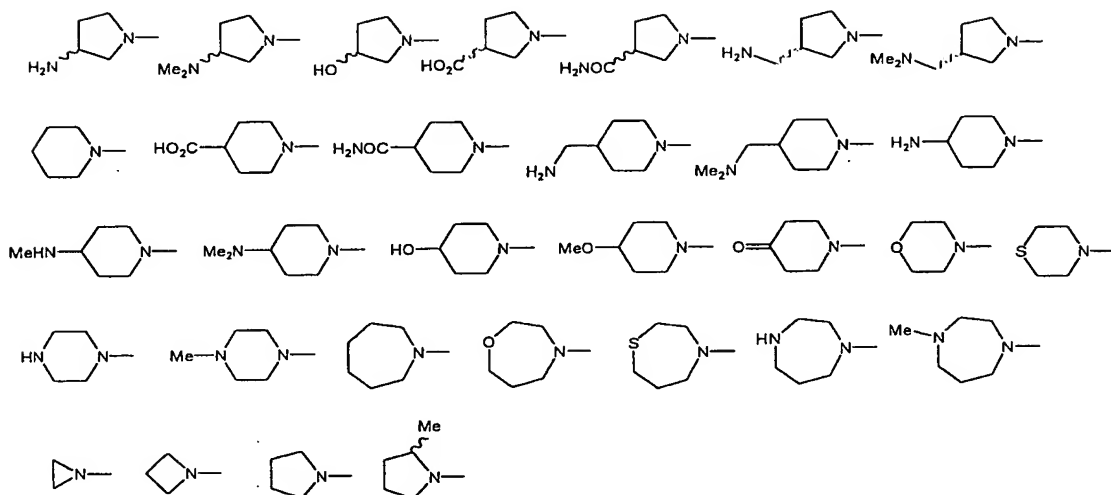
wherein:

5 A-Q is selected from the group consisting of:



wherein:

A is selected from the group consisting of:



$R^{1a}$  is selected from the group consisting of:

5            -H, -F, -Cl and -Br;

$R^{1b}$  is selected from the group consisting of:

 $-\text{H}$ ,  $-\text{CH}_3$  and  $-\text{CF}_3$ ;

$R^{1cl}$  is selected from the group consisting of:

10                    -H, -F, -Cl, -Br, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>OH, -CONH<sub>2</sub>, -C(=NH)NH<sub>2</sub>, -CO<sub>2</sub>H, -  
CO<sub>2</sub>Me, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -NH<sub>2</sub>, and -NO<sub>2</sub>;

$R^{1c2}$  is selected from the group consisting of:

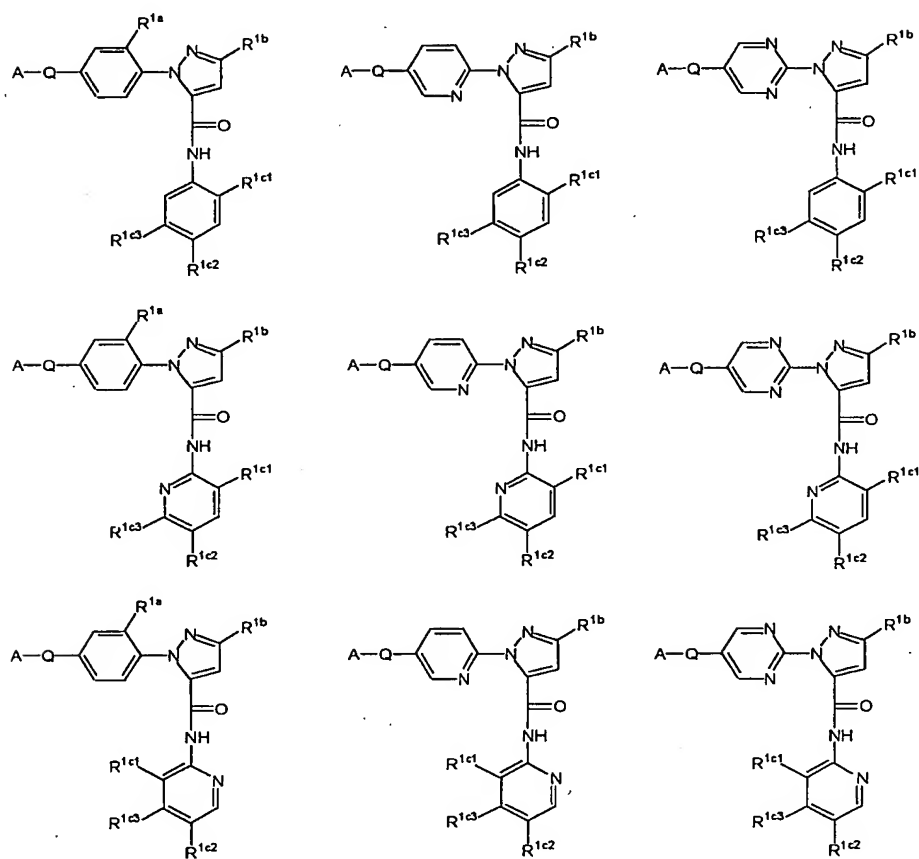
-H, -F, -Cl and -Br;



$R^{1c3}$  is selected from the group consisting of:

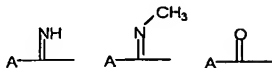
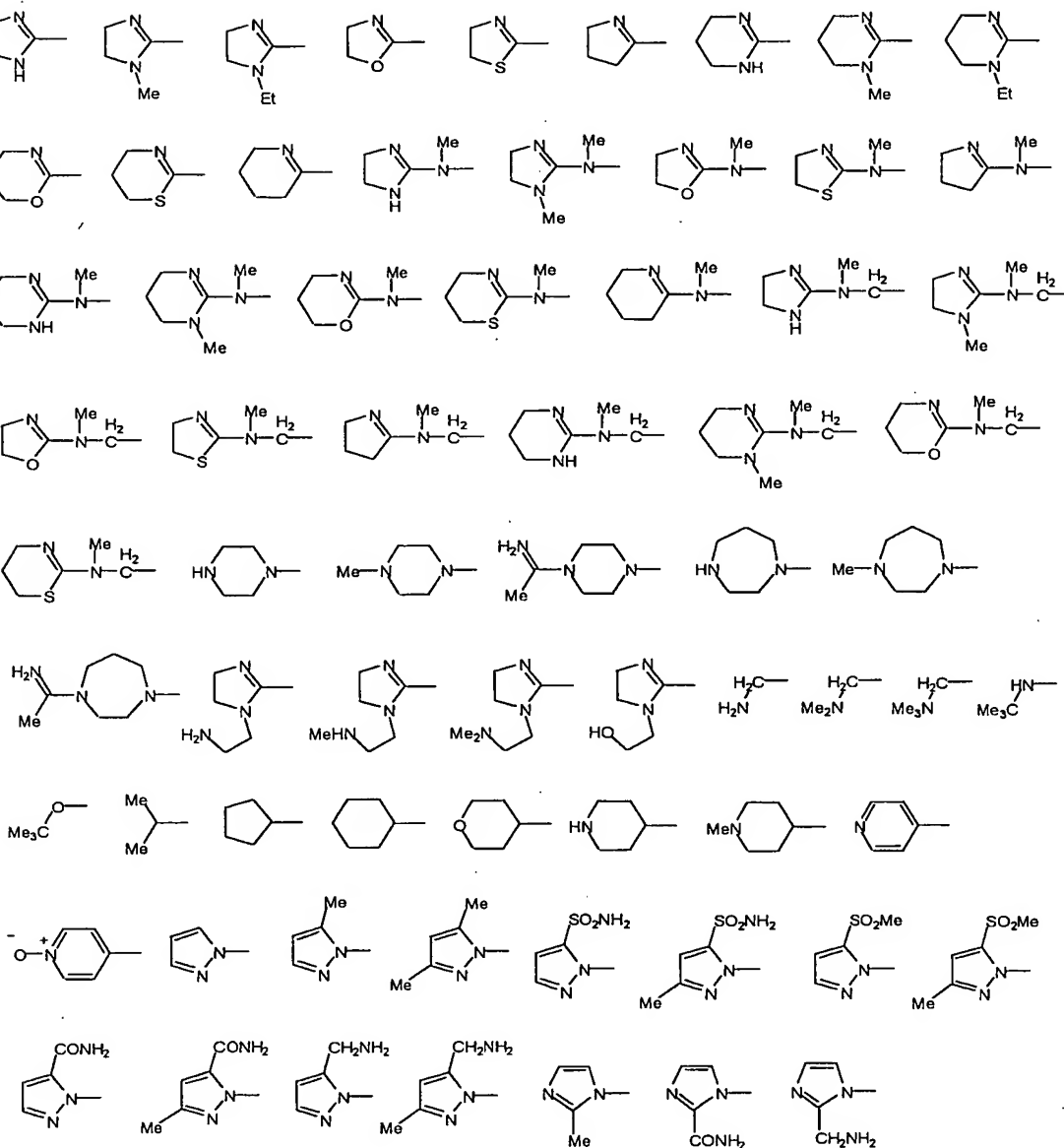
-H, -F, -Cl and -Br.

18. The following compounds are claimed by the present invention:



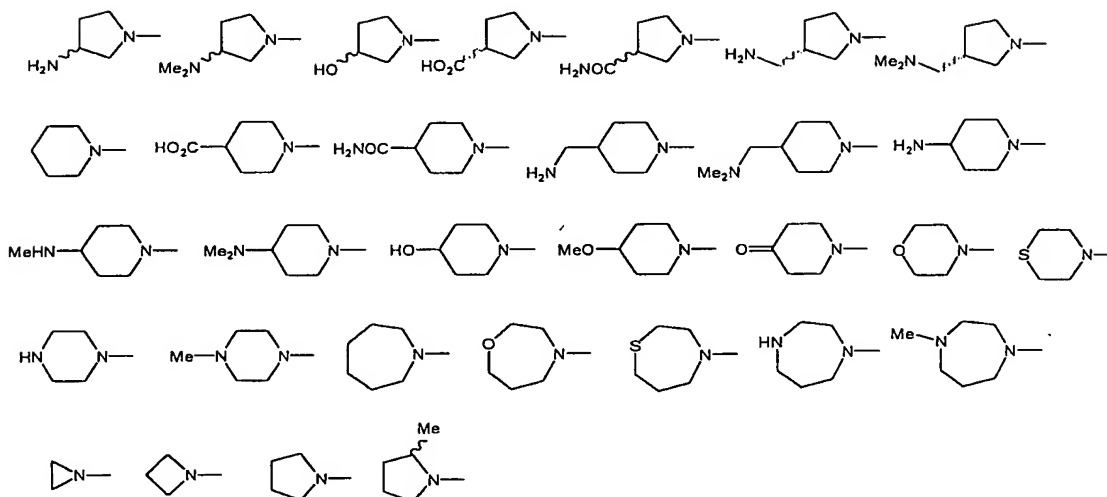
5 wherein:

$A-Q$  is selected from the group consisting of:



wherein:

A is selected from the group consisting of:



$R^{1a}$  is selected from the group consisting of:

5        -H, -F, -Cl and -Br;

$R^{1b}$  is selected from the group consisting of:

-H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1c1}$  is selected from the group consisting of:

-H, -F, -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -SO<sub>2</sub>Me, -SO<sub>2</sub>NH<sub>2</sub> and -NO<sub>2</sub>;

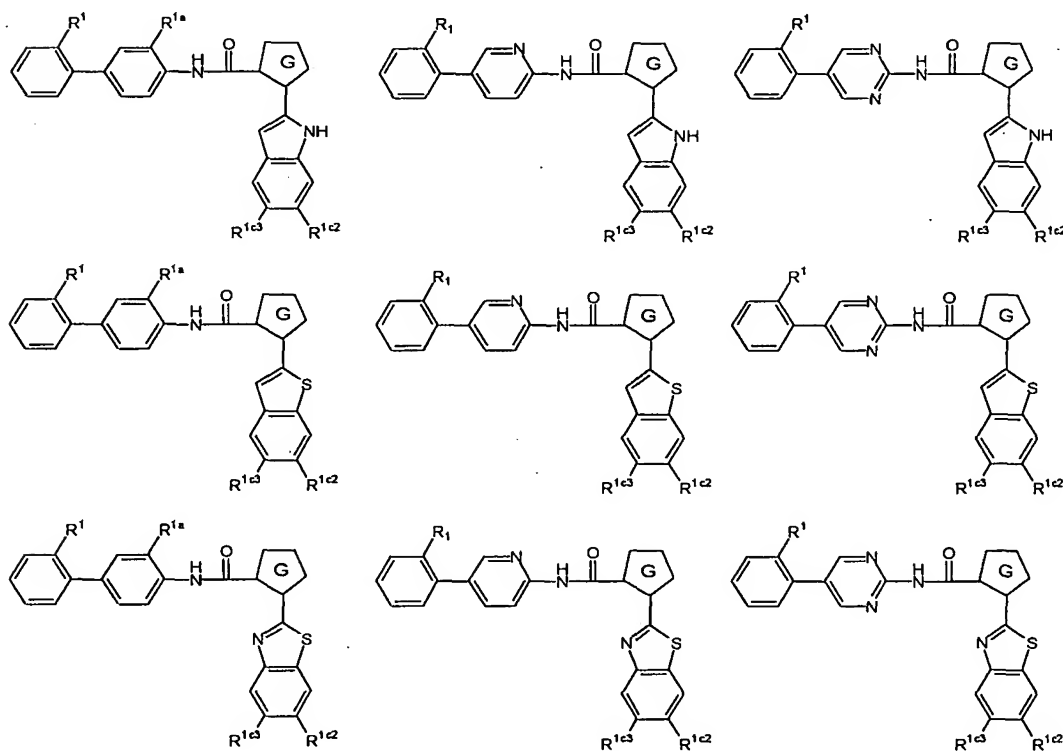
10     $R^{1c2}$  is selected from the group consisting of:

-H, -F, -Cl, -Br and -OCH<sub>3</sub>;

$R^{1c3}$  is selected from the group consisting of:

-H, -F, -Cl, -Br, -OCH<sub>3</sub>, -NH<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CONH<sub>2</sub>, -CONHMe, -CONMe<sub>2</sub>.

19. The following compounds are claimed by the present invention:



5 wherein:

R<sup>1</sup> is selected from the group consisting of:

-SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>Me, -CH<sub>2</sub>NH<sub>2</sub> and -CH<sub>2</sub>NMe<sub>2</sub>;

R<sup>1a</sup> is selected from the group consisting of:

-H, -F, -Cl and -Br;

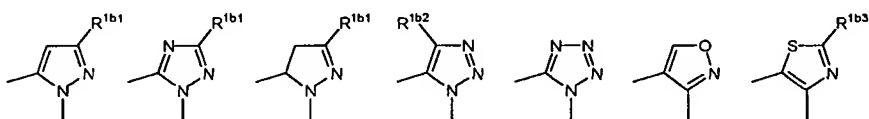
10 R<sup>1c1</sup> is selected from the group consisting of:

-H, -F, -Cl, -Br, -NH<sub>2</sub>, -OH, -SO<sub>2</sub>Me, -SO<sub>2</sub>Et, -SO<sub>2</sub>NH<sub>2</sub>, -NO<sub>2</sub>, -CH<sub>2</sub>NH<sub>2</sub>, -CN, -CONH<sub>2</sub>, -CH<sub>2</sub>OH;

R<sup>1c2</sup> and R<sup>1c3</sup> are independently selected from the group consisting of:

-H, -F, -Cl and -Br;

5 G is selected from the group consisting of:



wherein:

R<sup>1b1</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

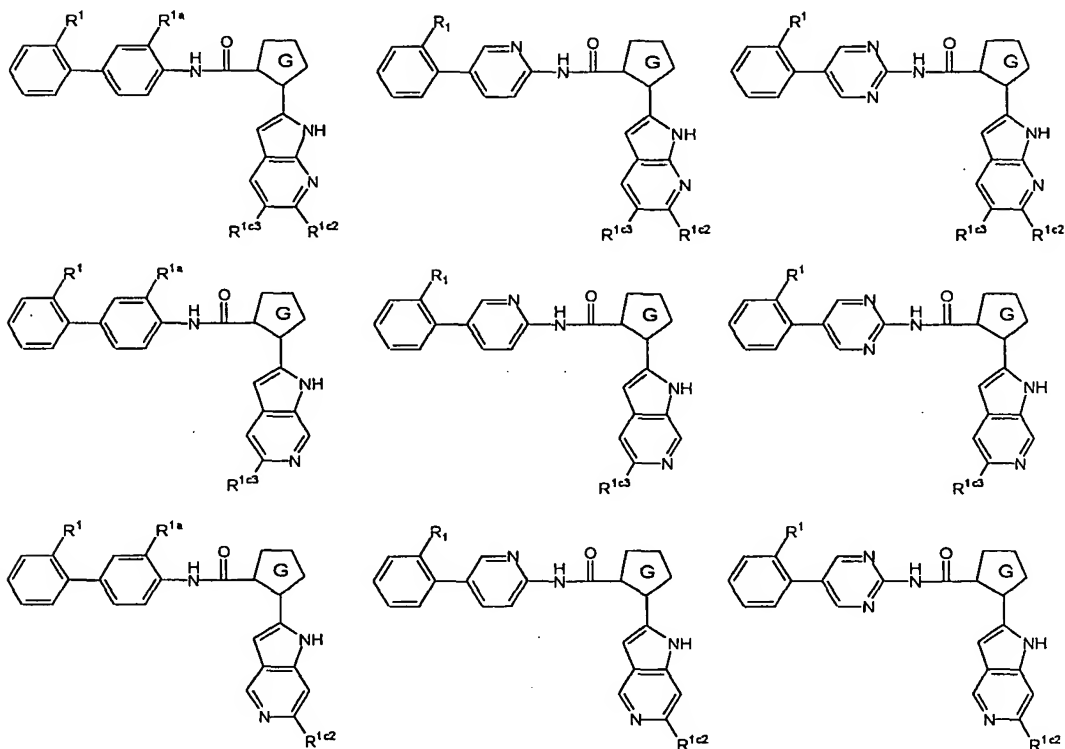
R<sup>1b2</sup> is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

10 R<sup>1b3</sup> is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

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20. The following compounds are claimed by the present invention:



wherein:

$R^1$  is selected from the group consisting of:

5            $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{CH}_2\text{NH}_2$  and  $-\text{CH}_2\text{NMe}_2$ ;

$R^{1a}$  is selected from the group consisting of:

$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$  and  $-\text{Br}$ ;

$R^{1c1}$  is selected from the group consisting of:

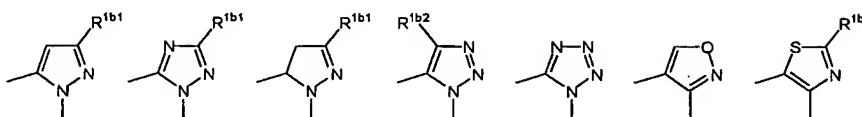
$-\text{H}$ ,  $-\text{F}$ ,  $-\text{Cl}$ ,  $-\text{Br}$ ,  $-\text{NH}_2$ ,  $-\text{OH}$ ,  $-\text{SO}_2\text{Me}$ ,  $-\text{SO}_2\text{Et}$ ,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{NO}_2$ ,  $-\text{CH}_2\text{NH}_2$ ,  $-\text{CN}$ ,  $-\text{CONH}_2$ ,  $-\text{CH}_2\text{OH}$ ;

10

$R^{1c2}$  and  $R^{1c3}$  are independently selected from the group consisting of:

-H, -F, -Cl and -Br;

G is selected from the group consisting of:



5            wherein:

$R^{1b1}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b2}$  is selected from the group consisting of -H, -CH<sub>3</sub> and -CF<sub>3</sub>;

$R^{1b3}$  is selected from the group consisting of -Cl, -NH<sub>2</sub>, -CH<sub>3</sub> and -CF<sub>3</sub>.

10    21.    A pharmaceutical composition for preventing or treating a condition in a mammal characterized by undesired thrombosis comprising a pharmaceutically acceptable carrier and a pharmaceutically effective amount of a compound of claim 1.

15    22.    A method for preventing or treating a condition in a mammal characterized by undesired thrombosis comprising administering to said mammal a therapeutically effective amount of a compound of claim 1.

23.    The method of claim 6, wherein the condition is selected from the group consisting of:

acute coronary syndrome, myocardial infarction, unstable angina, refractory  
angina, occlusive coronary thrombus occurring post-thrombolytic therapy or  
post-coronary angioplasty, a thrombotically mediated cerebrovascular  
syndrome, embolic stroke, thrombotic stroke, transient ischemic attacks,  
5 venous thrombosis, deep venous thrombosis, pulmonary embolus,  
coagulopathy, disseminated intravascular coagulation, thrombotic  
thrombocytopenic purpura, thromboangiitis obliterans, thrombotic disease  
associated with heparin-induced thrombocytopenia, thrombotic complications  
associated with extracorporeal circulation, thrombotic complications  
10 associated with instrumentation, and thrombotic complications associated with  
the fitting of prosthetic devices.

24. A method for inhibiting the coagulation of biological samples, comprising the  
step of administering a compound of claim 1.

15

25. A pharmaceutical composition for preventing or treating a condition in a  
mammal characterized by undesired thrombosis comprising a pharmaceutically  
acceptable carrier and a pharmaceutically effective amount of a compound of claim 2.

20 26. A method for preventing or treating a condition in a mammal characterized by  
undesired thrombosis comprising administering to said mammal a therapeutically  
effective amount of a compound of claim 2.

27. The method of claim 10, wherein the condition is selected from the group  
25 consisting of:



acute coronary syndrome, myocardial infarction, unstable angina, refractory  
angina, occlusive coronary thrombus occurring post-thrombolytic therapy or  
post-coronary angioplasty, a thrombotically mediated cerebrovascular  
syndrome, embolic stroke, thrombotic stroke, transient ischemic attacks,  
5 venous thrombosis, deep venous thrombosis, pulmonary embolus,  
coagulopathy, disseminated intravascular coagulation, thrombotic  
thrombocytopenic purpura, thromboangiitis obliterans, thrombotic disease  
associated with heparin-induced thrombocytopenia, thrombotic complications  
associated with extracorporeal circulation, thrombotic complications  
10 associated with instrumentation, and thrombotic complications associated with  
the fitting of prosthetic devices.

28. A method for inhibiting the coagulation of biological samples, comprising the  
step of administering a compound of claim 2.

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29. A pharmaceutical composition for preventing or treating a condition in a  
mammal characterized by undesired thrombosis comprising a pharmaceutically  
acceptable carrier and a pharmaceutically effective amount of a compound of claim 3.

20 30 A method for preventing or treating a condition in a mammal characterized by  
undesired thrombosis comprising administering to said mammal a therapeutically  
effective amount of a compound of claim 3.

31. The method of claim 30, wherein the condition is selected from the group  
25 consisting of:

acute coronary syndrome, myocardial infarction, unstable angina, refractory  
angina, occlusive coronary thrombus occurring post-thrombolytic therapy or  
post-coronary angioplasty, a thrombotically mediated cerebrovascular  
syndrome, embolic stroke, thrombotic stroke, transient ischemic attacks,  
5 venous thrombosis, deep venous thrombosis, pulmonary embolus,  
coagulopathy, disseminated intravascular coagulation, thrombotic  
thrombocytopenic purpura, thromboangiitis obliterans, thrombotic disease  
associated with heparin-induced thrombocytopenia, thrombotic complications  
associated with extracorporeal circulation, thrombotic complications  
10 associated with instrumentation, and thrombotic complications associated with  
the fitting of prosthetic devices.

32. A method for inhibiting the coagulation of biological samples, comprising the  
step of administering a compound of claim 3.

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33. A pharmaceutical composition for preventing or treating a condition in a  
mammal characterized by undesired thrombosis comprising a pharmaceutically  
acceptable carrier and a pharmaceutically effective amount of a compound of claim 4.

20 34. A method for preventing or treating a condition in a mammal characterized by  
undesired thrombosis comprising administering to said mammal a therapeutically  
effective amount of a compound of claim 4.

35. The method of claim 34, wherein the condition is selected from the group  
25 consisting of:

acute coronary syndrome, myocardial infarction, unstable angina, refractory  
angina, occlusive coronary thrombus occurring post-thrombolytic therapy or  
post-coronary angioplasty, a thrombotically mediated cerebrovascular  
syndrome, embolic stroke, thrombotic stroke, transient ischemic attacks,  
5 venous thrombosis, deep venous thrombosis, pulmonary embolus,  
coagulopathy, disseminated intravascular coagulation, thrombotic  
thrombocytopenic purpura, thromboangiitis obliterans, thrombotic disease  
associated with heparin-induced thrombocytopenia, thrombotic complications  
associated with extracorporeal circulation, thrombotic complications  
10 associated with instrumentation, and thrombotic complications associated with  
the fitting of prosthetic devices.

36. A method for inhibiting the coagulation of biological samples, comprising the  
step of administering a compound of claim 4.

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